

6958

SERVICE DATA
FILE NO. 053-457
NTSC SYSTEM

TOSHIBA

COLOR TELEVISION

CX3583A

(TAC9191)

NOTE

CX3583A is the same as CX3586A except for the following parts.

Use this service data together with the service data for Model CX3586A (FILE NO. 050-457).

CABINET REPLACEMENT PARTS LIST

Location No.	Part No.	Description
A101	23465030	Wood Cabinet
A201	23419198	Mask
A210	23845609	Clip
A241	23451204	Push-Catch
A250	23443598	Knob, Power
A251	23443590	Knob, Door Key
A253	23836867	Spring
A260	23424510	Door
A402	23822569	Back Board
A403	23448080	Socket Cover
A404	23822769	Cover
A701	23523873	Carton Box
A702	23935046	Packing, Top
A703	23935080	Packing, Bottom
A902	23998346	Label, WARNING
B110	23864155	Frame
Y101	23561467	Owner's Manual
Y106	23994678	TESC Sheet
Y107	23142003	Adaptor, Antenna Matching, AD503J

TOSHIBA CORPORATION

1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105, JAPAN

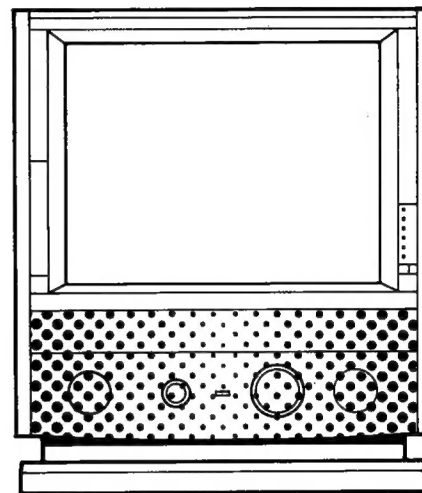
TOSHIBA

COLOR TELEVISION

CX3586A

(TAC9191)

SERVICE DATA
FILE NO. 050-457
NTSC SYSTEM



For service information not described in this manual, see the original service data for CF3566A: CX37662 (File No. 050-445).

SPECIFICATIONS

Input Power Rating:	156 watts (average), 120 volts AC, 60 Hz
Antenna Input Impedance:	75 ohm unbalanced type for VHF, UHF and CATV
Receiving Channels:	VHF channels channels 2 to 13 UHF channels channels 14 to 69 CATV channels Mid-band A8 to A1, A to I Super-band J to W Hyper-band AA to ZZ, AAA, BBB Ultra-band 65 to 94, 100 to 125
Intermediate Frequencies:	Picture I-F carrier frequency 45.75 MHz Sound I-F carrier frequency 41.25 MHz Color sub-carrier frequency 42.17 MHz
Picture Tube:	35 inches, A89KPP90X01V, 588 sq. inches of viewable area, 110° deflection
Audio Output:	Main; 10 watts x 2, Sub-woofer; 20 Watts
Speakers:	Main; 4-3/4" round pcs, Sub-woofer; 6-5/16" round
Cabinet:	Plastic, Console type
Dimensions:	Height 39-3 / 32 inches Width 44-3 / 4 inches Depth 26-25 / 32 inches
Weight:	297 lbs. (135 kg)
Aux. Terminals:	AUDIO / VIDEO INPUT jacks, S-VIDEO INPUT jack, AUDIO OUTPUT (VARIABLE) jacks, External speaker terminals.
Features:	Frequency synthesized tunig system, 181-channel cable compatible, 53-key universal remote control, Multichannel TV Sound reception, Digital Sound Processor, On-screen menu function, Picture In Picture function, Programmable scan, D-CCD Comb filter, 2-RF inputs, Scan modulator

Specifications are subject to change without notice.

X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is 31.6 kV at zero beam current (minimum brightness) under a 120V AC power source. The high voltage must not, under any circumstances, exceed 32.7 kV. Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended that the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.
2. This receiver is equipped with a Fail Safe (FS) circuit which prevents the receiver from producing

an excessively high voltage even if the B+ voltage increases abnormally. Each time the receiver is serviced, the FS circuit must be checked to determine that the circuit is properly functioning, following the FS CIRCUIT CHECK procedure in this manual.

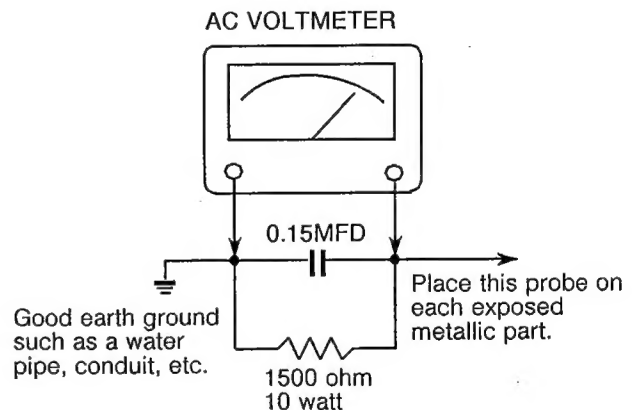
3. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
4. Some part in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY PRECAUTION

WARNING : Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

1. An isolation Transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.
4. Before returning the set to the customer, always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as antennas, terminals, screwheads, metal overlays, control shafts etc. to be sure the set is safe to operate without danger of electrical shock. Plug the AC line cord directly into a 120V AC outlet (do not use a line isolation transformer during this check). Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following manner:

Connect a 1500 ohm 10 watt resistor, paralleled by a 0.15 mfd, AC type capacitor, between a known good earth ground (water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500 ohm resistor and 0.15 mfd capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.3 volts RMS. This corresponds to 0.2 milliamp. AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



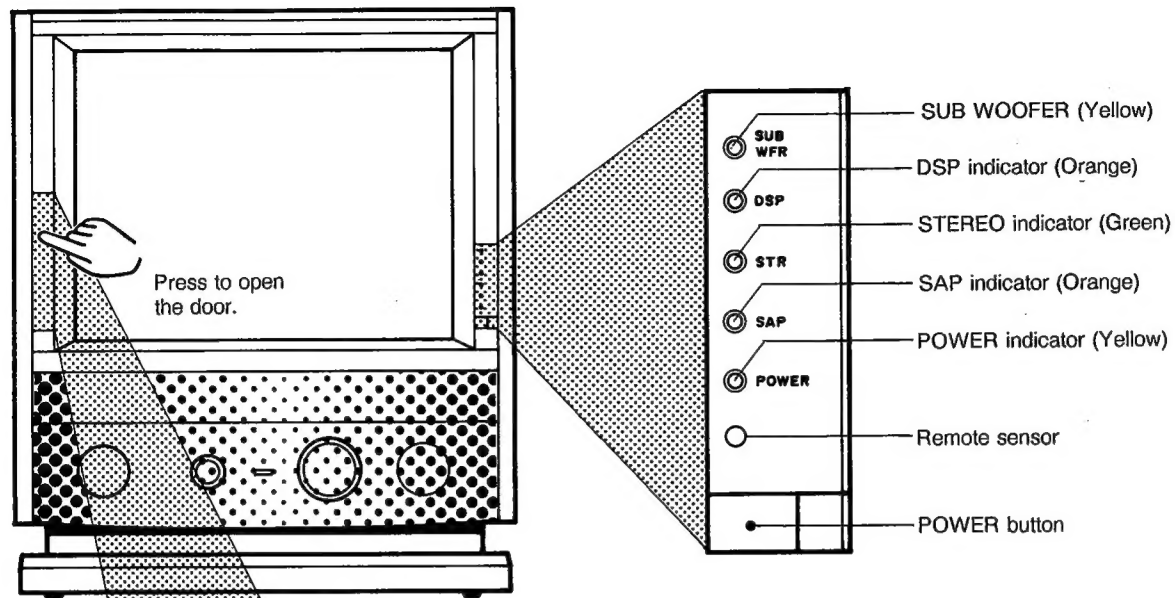
PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.

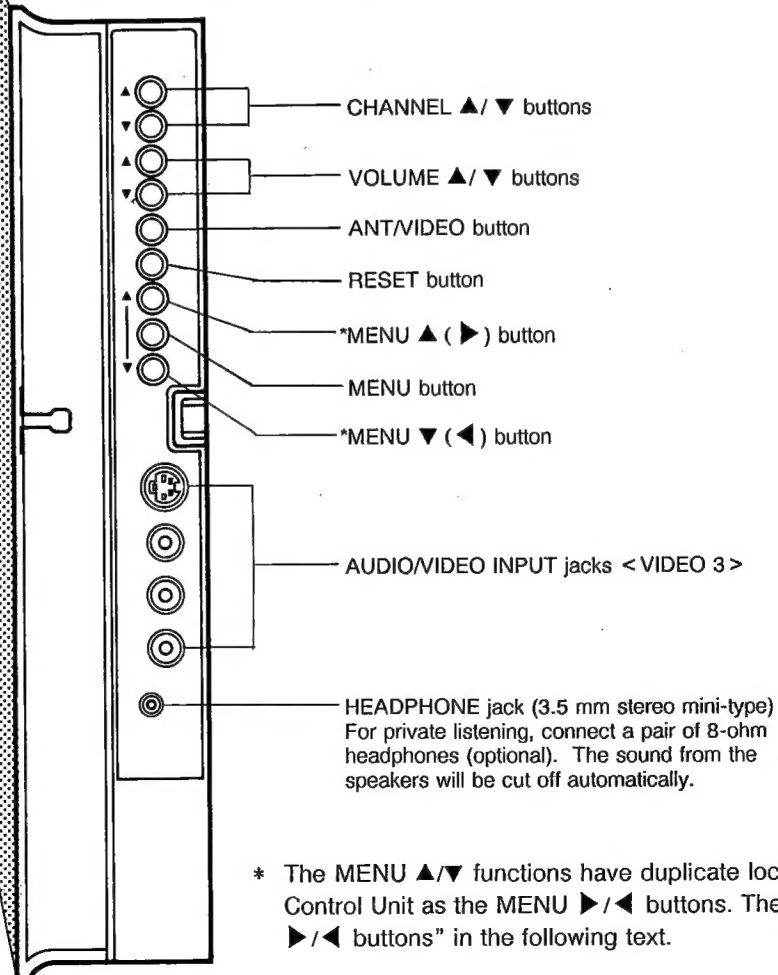
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-ray radiation or other hazards.

LOCATION OF CONTROLS

FRONT VIEW

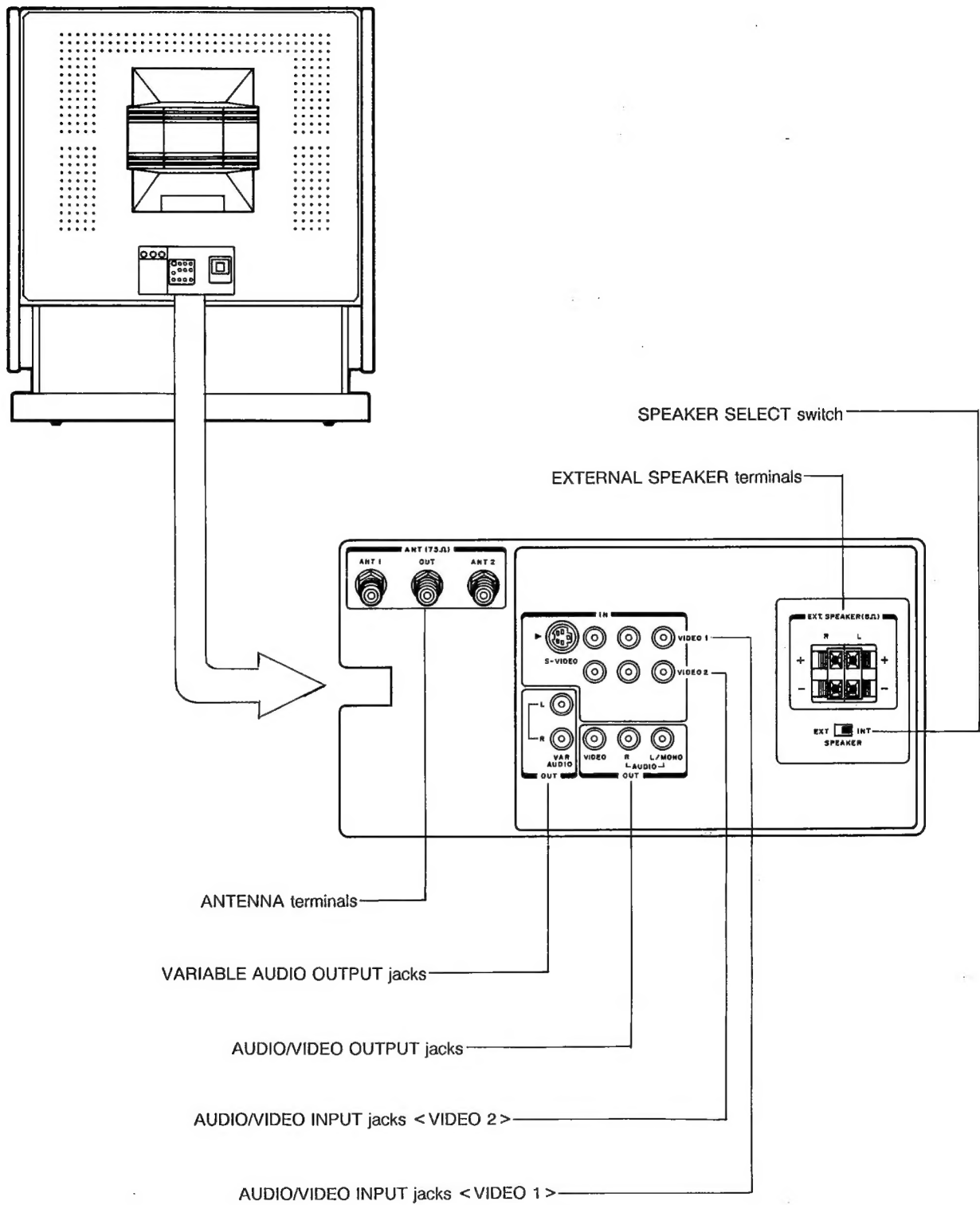


BEHIND THE DOOR



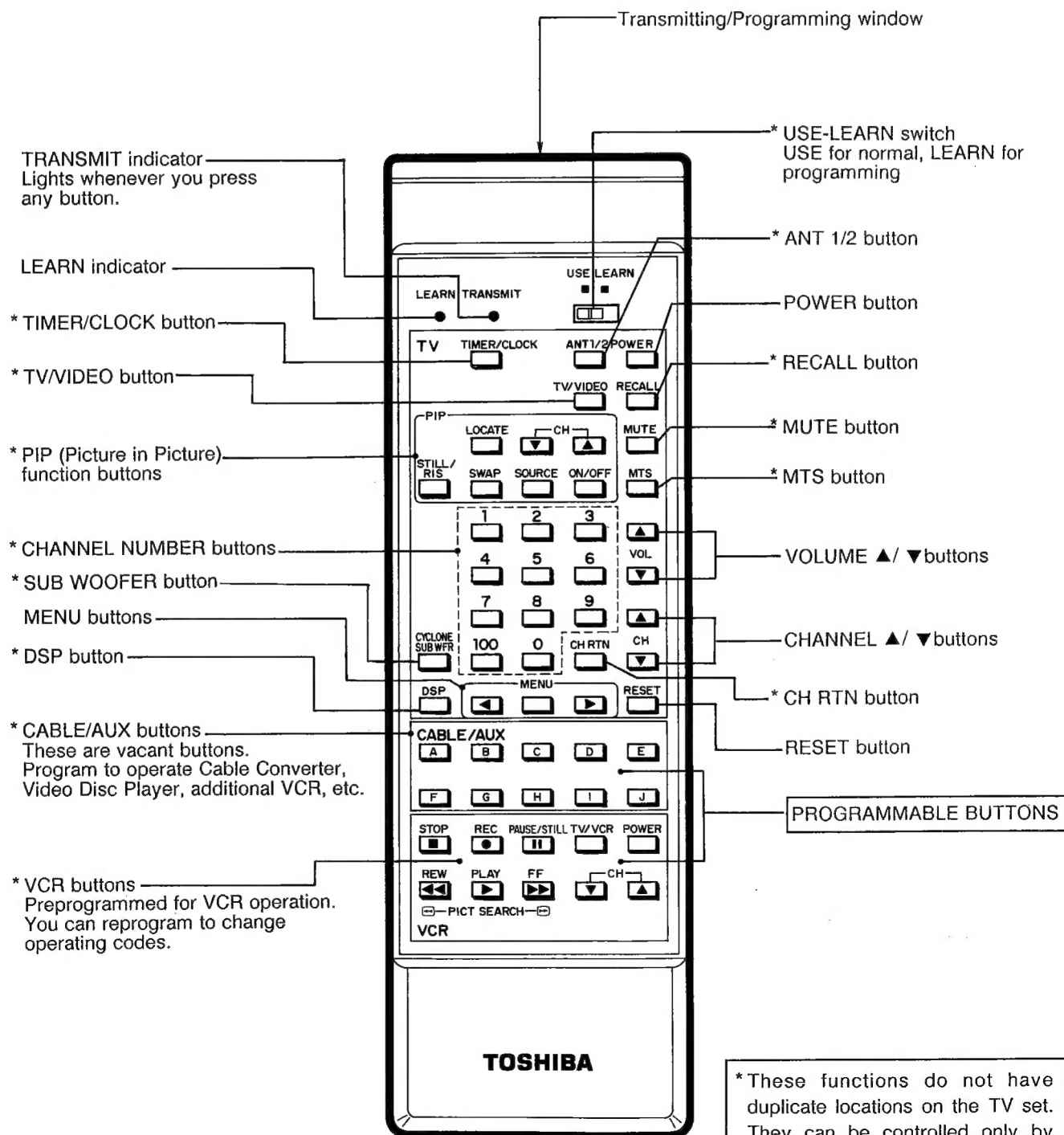
* The MENU ▲/▼ functions have duplicate locations on the Remote Control Unit as the MENU ▶/◀ buttons. These are called "MENU ▶/◀ buttons" in the following text.

REAR VIEW



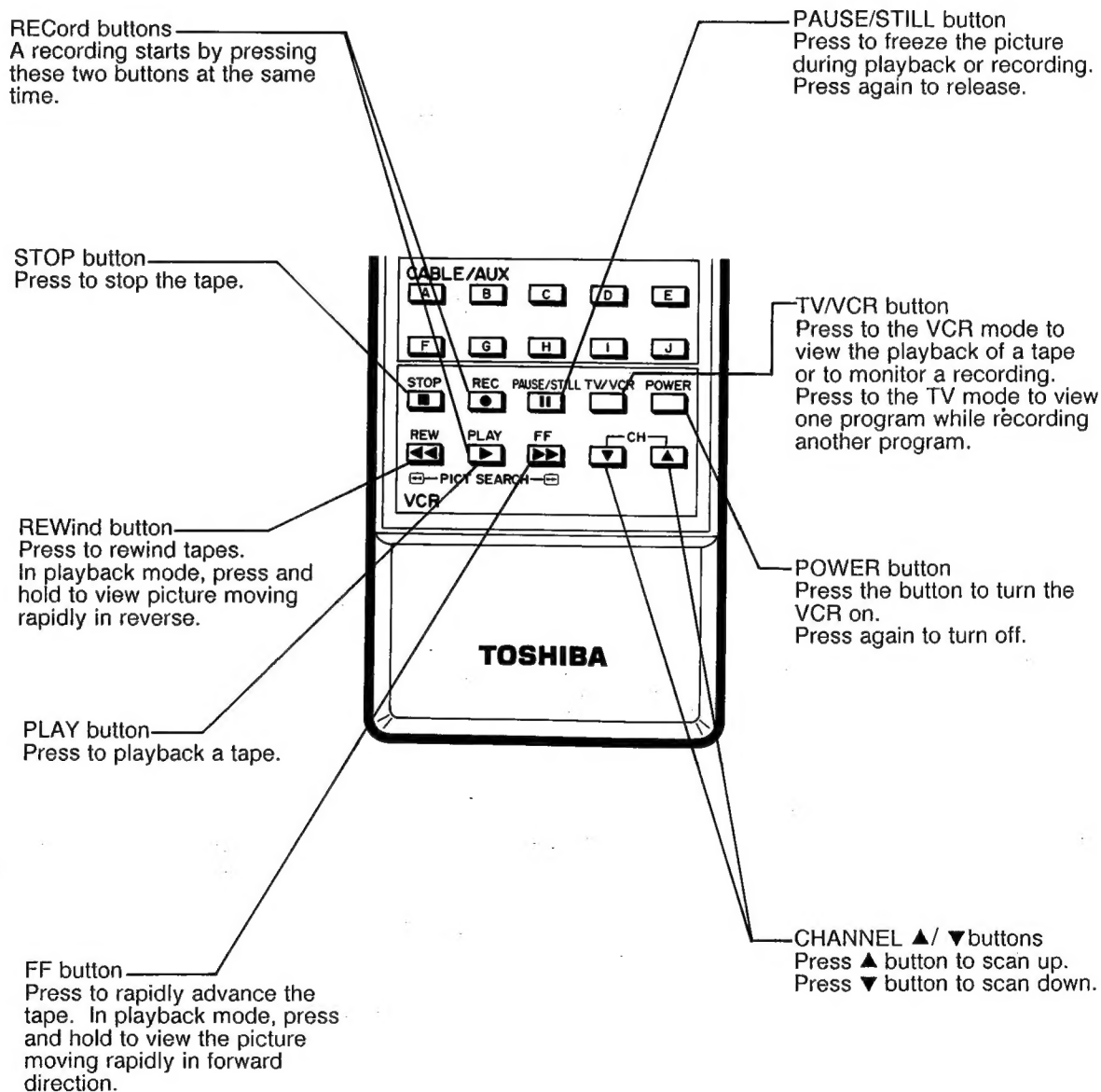
PROGRAMMABLE REMOTE CONTROL UNIT

This Remote Control Unit is preprogrammed to control the functions of your TV set and a number of TOSHIBA VCR's. (Some VCR models have different functions.) However, the "VCR" and "CABLE/AUX" buttons can be programmed by you to operate a variety of video accessory equipment.



USING THE REMOTE WITH VCR

This Remote Control Unit is preprogrammed to operate most TOSHIBA **VHS** remote controlled VCR's. The various VCR function buttons are described below. If these buttons do not operate your VCR, programming your Remote is necessary. Follow the section "PROGRAMMING THE REMOTE CONTROL UNIT" on page 7.



PROGRAMMING THE REMOTE CONTROL UNIT

This unique Programmable Remote Control Unit allows you to control the functions of your TV set and a variety of video accessory equipment. This Remote Control Unit is capable of learning operating codes from most infrared remote control transmitters.

PROGRAM CAPABILITY

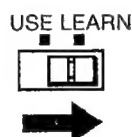
- "TV" buttons can be used to control the functions of your TV set and the operating codes cannot be changed by you.
- "VCR" buttons are preprogrammed at the factory to control the functions of most TOSHIBA **VHS** VCR's. However, the factory program can be changed to control other manufacturer's REMOTE VCR's.
- "CABLE/AUX" buttons can be used to control the functions of any other audio/video equipment (REMOTE Cable Converters, Video Disc Players, or additional VCR's, etc.). Use these buttons after following the section "TO PROGRAM (LEARNING ANY OTHER REMOTE CONTROL'S CODES)".

Note: You can cancel your programming by following the section "TO CANCEL YOUR PROGRAMMING" on the next page. The remote control functions will return to the original factory programming.

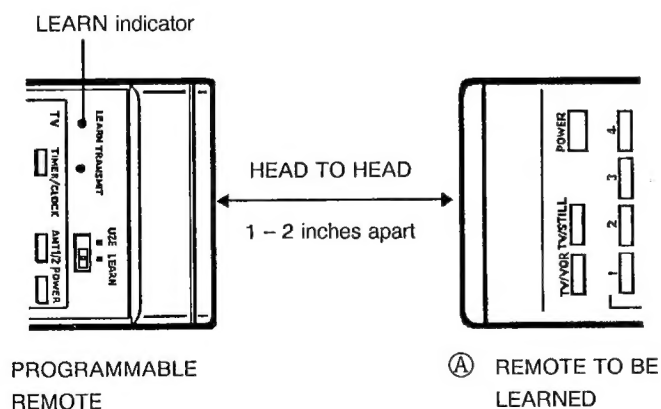
TO PROGRAM (LEARNING ANY OTHER REMOTE CONTROL'S CODES)

Prepare a remote unit to be learned (hereinafter called the "A Remote").

1. Place the USE-LEARN switch on the Programmable Remote in the LEARN position.



2. Place the A Remote and the Programmable Remote in a position pointing at each other 1 to 2 inches (2 to 5 cm) apart as shown.



3. Press and hold the button to LEARN on the Programmable Remote (such as CABLE/AUX "A" button) until the LEARN indicator lights up.

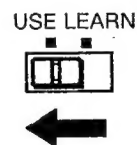
4. Press and hold a function button to be learned on the A Remote (such as "Volume Up") until the LEARN indicator goes off.

The Programmable Remote has now learned the function you chose of the A Remote.

If the LEARN indicator and TRANSMIT indicator blink at the same time, it indicates that the Programmable Remote can not learn the operating code. In this case, refer to the section "ERROR INDICATION" on the next page.

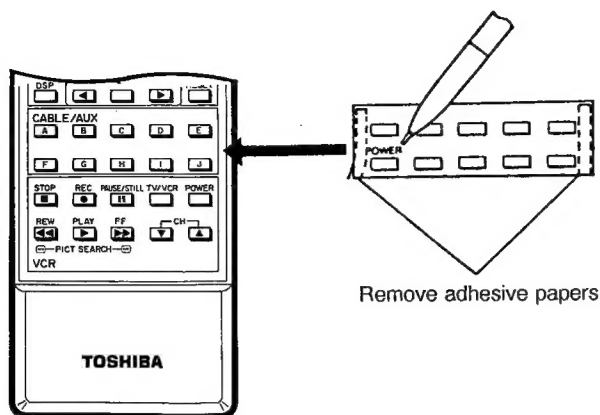
5. Repeat steps 3 and 4 for other functions.

6. Place the USE-LEARN switch in the USE position.



7. To check your programming, operate appropriate equipment with the Programmable Remote. If the equipment does not operate as expected, repeat steps 1 to 7. Try changing the distance between the two Remote units.

8. Stick the supplied template on the Remote to enter the function names of the CABLE/AUX buttons you have programmed as shown below.
Use a ballpoint pen etc. to write the function names.



Programming has now been completed.

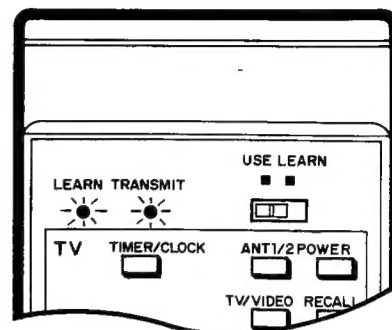
Note: Memorized codes will remain while you replace batteries. However, if batteries are not replaced within an hour, memory will be lost and remote control functions will return to the original factory programming.

TO CANCEL YOUR PROGRAMMING

1. Place the USE-LEARN switch in the LEARN position.
2. Press any of the programmable buttons until the LEARN indicator lights up.
3. Press the RECALL and RESET buttons simultaneously until the LEARN and TRANSMIT indicators go off (about 5 seconds).
4. Place the USE-LEARN switch in the USE position.
5. Operate any of the buttons you had programmed to make sure your programming has been cancelled.
6. Your programming has now been cancelled.
The remote control functions have returned to the original factory programming.

ERROR INDICATION

In the "LEARN" mode, if the LEARN indicator and TRANSMIT indicator blink at the same time, it indicates that the Programmable Remote cannot learn the operating code. In this case, check the following possible causes:



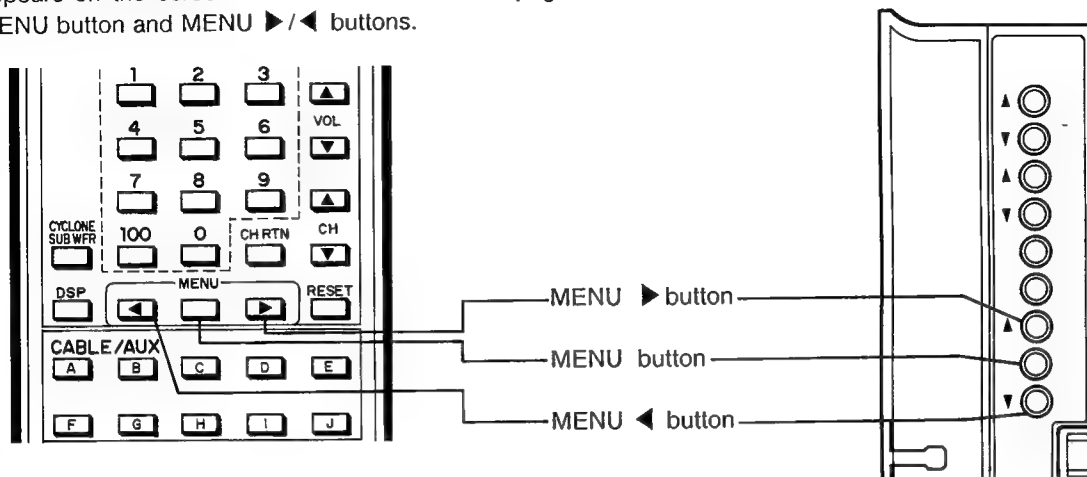
1. Any of the unprogrammable (TV) buttons is pressed.
→ Use the "CABLE/AUX" or "VCR" buttons.
2. The Programmable Remote Unit's Memory is full (Memory Overload) by your repeated programming.
→ After cancelling your programming following the section "TO CANCEL YOUR PROGRAMMING", reprogram.
3. This Programmable Remote Unit may not be able to learn the operating codes of the remote unit to be learned.

Note: When programming, if a Programmable Remote button is released before the LEARN indicator goes off or the distance between two remote units is not proper, the Programmable Remote may not learn the operating code properly. In these cases, the error indication will not function.

MENU FUNCTION

We suggest you familiarize yourself with the procedure before using the Menu Function.

To adjust any TV feature, the use of the Menu Function is required. The adjustments that can be made to the TV appears on the screen. The chart on the next page shows all the menu pages displayed on the screen using the MENU button and MENU ►/◄ buttons.



1. Press the MENU button on the TV set or on the Remote Control Unit once. The 1st level "MENU" will appear on the screen as shown below.
4. Press the MENU ► or ◄ button to select the item you want to adjust.

MENU	
PICTURE	CH PROG
AUDIO 1	LANGUAGE
AUDIO 2	MISC

2. Press the MENU ► or ◄ button to select the menu you want to adjust. The selected menu will be displayed in magenta. Each time you press the button, the item to be adjusted will be selected in the following order.

► button

◄ button

MENU	
PICTURE	CH PROG
AUDIO 1	LANGUAGE
AUDIO 2	MISC

MENU	
PICTURE	CH PROG
AUDIO 1	LANGUAGE
AUDIO 2	MISC

3. Press the MENU button to display 2nd level menu ("PICTURE", "AUDIO 1", "AUDIO 2", "CH PROG", "LANGUAGE" or "MISC").

<Example : PICTURE menu >

PICTURE	
CONTRAST	COLOR
BRIGHTNESS	TINT
SHARPNESS	FLESH

5. Press the MENU button to display the adjustment mode.

<Example: CONTRAST adjustment mode display >



6. Adjust the item displayed on the screen by pressing the MENU ► or ◄ button.

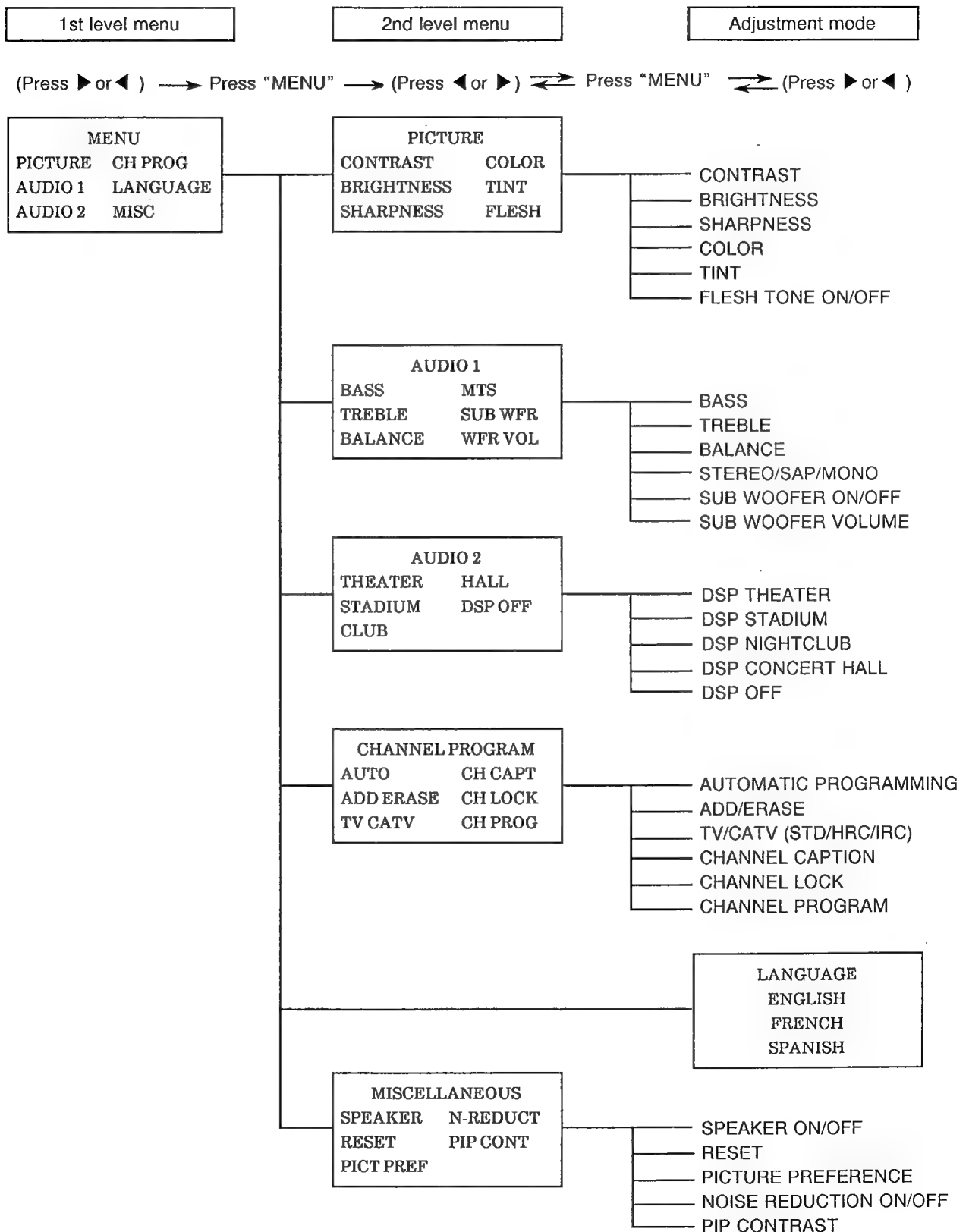
The on-screen display will automatically disappear if no control has been operated for about 6 seconds.

Note:

- How to adjust each function is described on a separate page.
- Enter each step within 6 seconds.
- To call up the 1st level menu on the screen instantly from any other menu display, press the RECALL button.

MENU FUNCTION FLOW CHART

For the use of each function, refer to the pages in the brackets.



WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

SET-UP ADJUSTMENT

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

Perform the adjustments in order as follows :

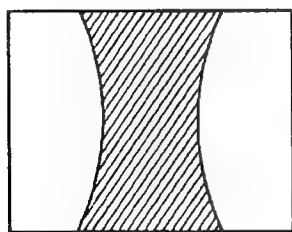
1. Color Purity
2. Convergence
3. CRT Gray Scale

Note: The PURITY/CONVERGENCE MAGNET assembly and rubber wedges need mechanical positioning.
Refer to figure 1.

COLOR PURITY ADJUSTMENT

NOTE : Before attempting any purity adjustments, the receiver should be operated for at least fifteen minutes.

1. Receive all-white signal with a color bar/pattern generator.
2. Evenly degauss the entire screen.
3. Set the CONTRAST and BRIGHTNESS Controls to the maximum.
4. Adjust RED and BLUE BIAS Controls (R956 and R958) to provide only a green raster. Advance the GREEN BIAS control (R957) if necessary.
5. Loosen the clamp screw holding the deflection yoke (and remove the rubber Wedges).
6. Slide the yoke forward or backward to provide vertical green belt (zone) in the picture screen.
7. Rotate and spread the tabs of the purity magnet (See figure 3.) around the neck of the picture tube until the green belt is in the center of the screen. At the same time, center the raster vertically by adjusting the magnet as shown below.



Green Belt

8. Move the yoke slowly forward or backward until a uniform green screen is obtained. Tighten the clamp screw of the yoke temporarily.
9. Check the purity of the red and blue raster by adjusting the BIAS Controls.
10. Put four wedges into the space between the picture tube and the yoke to hold the yoke in the adjusted position. (See figure 2.) Do not tilt the yoke by excessive insertion of the wedge.
11. Remove cover paper of wedge and stick wedges on the tube to fix the yoke in the adjusted position. Fix the wedges with glass cloth tapes.

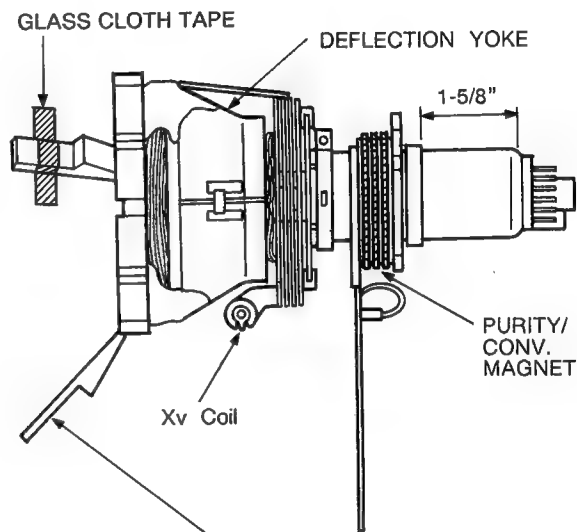


Figure 1.

RUBBER WEDGES

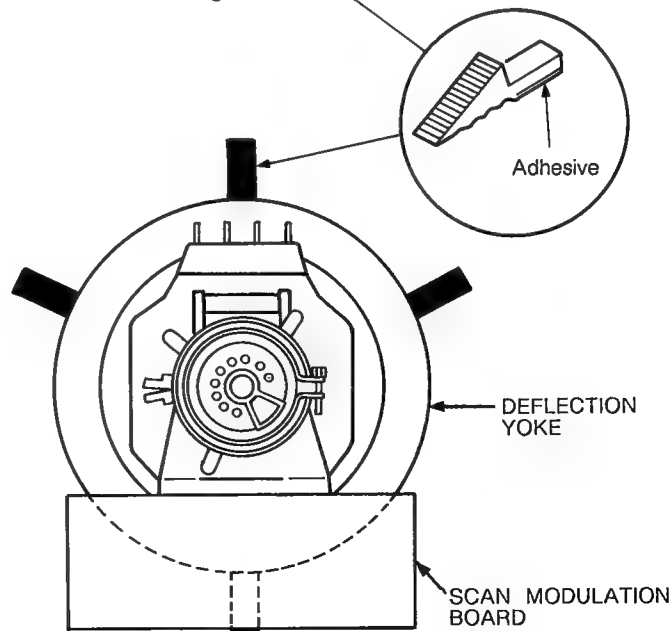
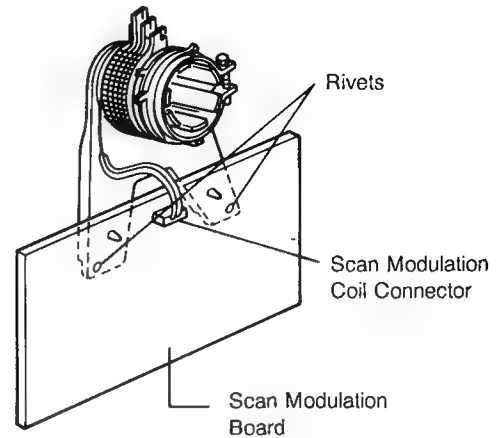
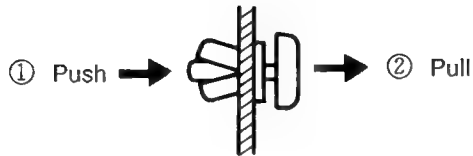


Figure 2.

HOW TO REMOVE THE PURITY/CONV. MAGNET FROM THE SCAN MODULATION BOARD

1. Disconnect the Scan Modulation Coil connector on the SCAN MODULATION Board.
2. Remove 2 rivets as below.



CONVERGENCE ADJUSTMENTS

NOTE: Before attempting any convergence adjustments, the receiver should be operated for at least fifteen minutes.

■ CENTER CONVERGENCE ADJUSTMENT

1. Receive crosshatch pattern from a color bar/pattern generator.
2. Adjust the BRIGHTNESS and CONTRAST Controls for well defined pattern.
3. Loosen the tightening ring and adjust two tabs of the 4-Pole Magnets to change the angle between them (See figure 3.) and superimpose red and blue vertical lines in the center area of the picture screen. (See figure 4.)

4. Turn the both tabs at the same time keeping the constant angle to superimpose red and blue horizontal lines at the centre of the screen. (See figure 4.)
5. Adjust two tabs of 6-Pole Magnets to superimpose red/blue line with green one. Adjusting the angle affects the vertical lines and rotating both magnets affects the horizontal lines.
6. Repeat adjustments 3, 4, 5 keeping in mind red, green and blue movement, because 4-Pole Magnets and 6-Pole magnets interact and make dot movement complex.
7. After completing the "CENTER CONVERGENCE ADJUSTMENT" tighten the tightening ring to fix the magnets.

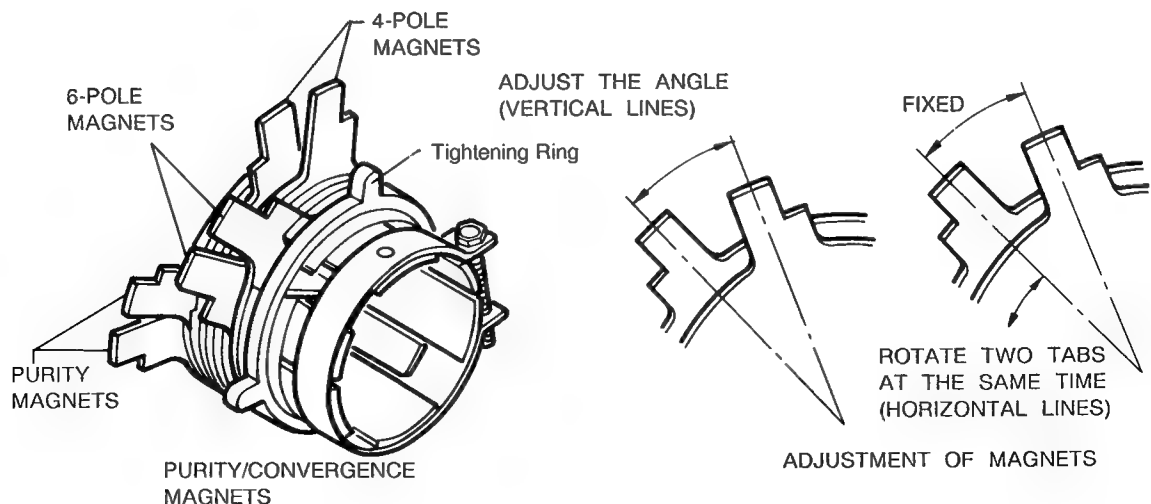
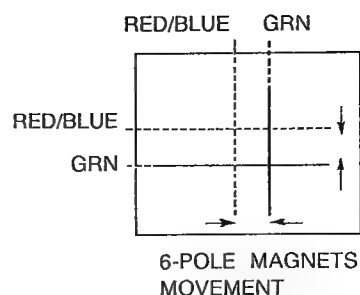
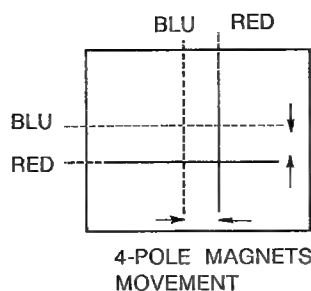


Figure 3.


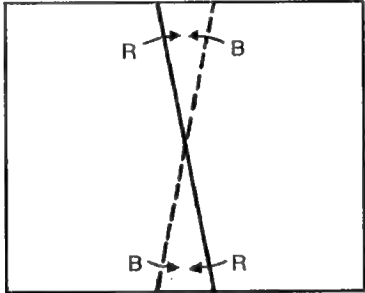
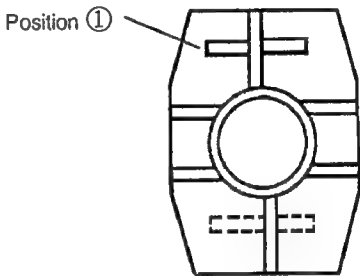

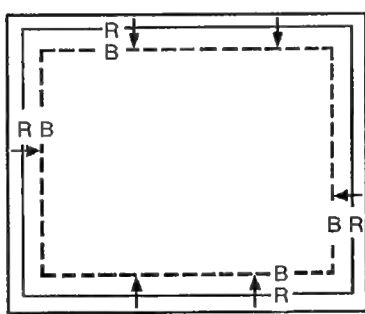
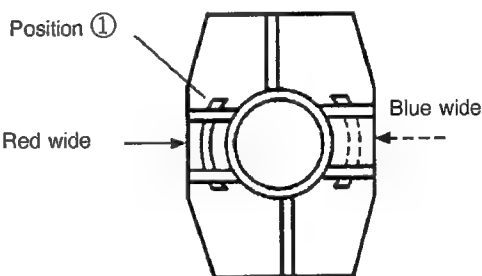


Center Convergence by Convergence Magnets

Figure 4.

■ CIRCUMFERENCE CONVERGENCE ADJUSTMENT

After completing the "CENTER CONVERGENCE ADJUSTMENT", if the misconvergence is still evident in circumference, compensate a misconvergence with compensators and Xv coil of the yoke.

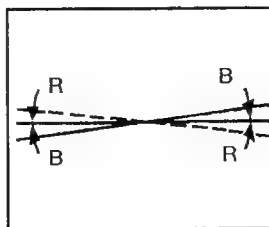
COMPENSATOR	CONVERGENCE PATTERN	ATTACHING PLACE ON YOKE BACK
 Part No. 23199308	Y_H (cross)  ① pattern	 Position ①
 Part No. 23199745	Y_V & X_H  ① pattern	 Position ① Red wide Blue wide

■ Xv COIL ADJUSTMENT

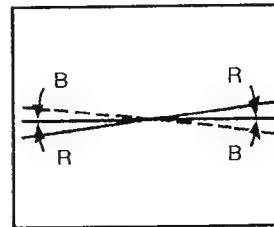
Adjust the Xv coil (on the deflection yoke) to correct misconvergence at both sides on screen. (See the right figure.)

Use a hexagonal tip stick (plastic) to adjust the core of coil.

Clockwise Adjustment



Counterclockwise Adjustment

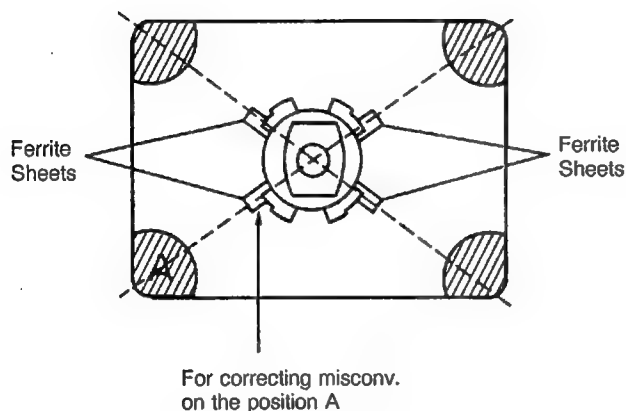


Xv Cross Pattern View

■ SCREEN-CORNER CONVERGENCE

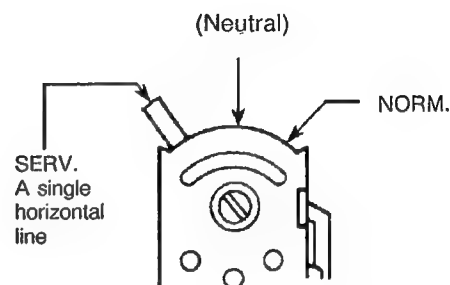
When the misconvergence is still evident on corners even though the above adjustment is done, use the ferrite sheet (Part No. 23993622) to correct misconvergence.

1. Put ferrite sheets into the space under the yoke. Decide such position that misconvergence becomes minimum, watching picture screen. (See figure below.)
2. Remove cover paper of ferrite sheet to stick it in the place on the tube. Put adhesive tapes on ferrite sheets to fix.



CRT GRAY SCALE ADJUSTMENT

1. Tune in an active channel.
2. Set the COLOR Control to minimum.
3. Turn the SCREEN Control (on T461) fully counterclockwise.
4. Set the SERVICE Switch on the CRT DRIVE Board to "SERV." position (see figure below). The picture will become a single horizontal line.



5. Rotate the RED, GREEN and BLUE BIAS Controls (R956, R957, R958) fully counterclockwise and return them by 45 degrees.
6. Set the GREEN and BLUE DRIVE Controls (R952, R953) to the mid-position.
7. Gradually rotate the SCREEN Control (on T461) clockwise until the first horizontal line appears slightly on the screen, and leave it.
8. Adjust the remaining two BIAS Controls to obtain the slightly lighted horizontal line in the same levels of three (red, green, blue) colors (The line should be white if the BIAS Controls are adjusted properly.)
9. Set the SERVICE Switch to "NORM." position.
10. Set the BRIGHT and CONTRAST Controls to maximum.
11. Adjust the BLUE and GREEN DRIVE Controls to obtain proper white-balanced picture in high light areas.
12. Adjust the BRIGHT and CONTRAST Controls to obtain dark gray raster. Then check the white balance in low brightness. If the white balance is not proper, retouch the BIAS Controls and DRIVE Controls to obtain a good white balance in both low and high light areas.

CIRCUIT ADJUSTMENT

HV REGU BOARD ADJUSTMENT

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis. Checking should be done following the steps below.

1. Connect an accurate high voltage meter to the second anode of the picture tube.
2. Turn on the receiver. Set the BRIGHT and CONTRAST Controls to minimum (zero beam current).
3. High voltage must be measured below 32.7 kV.
4. Rotate the BRIGHT Control to both extremes to be sure the high voltage does not exceed the limit under any conditions.

+115V POWER SUPPLY ADJUSTMENT

CAUTION: This voltage is closely related to the high voltage. To prevent hazardous X-RAY RADIATION, this voltage must be properly adjusted to +115 volts.

1. Tune in an air signal and press the RESET button.
2. Check that AC power line voltage is normal (120V ac, 60Hz).
3. Connect a MULTI-METER (DC VOLT range) to Vcc terminal (Emitter of Q480) and chassis ground.
4. Adjust +115V ADJ. (R450) for +115 volts reading.

SIDE DPC ADJUSTMENT

1. Receive crosshatch pattern with a color bar generator.
2. Adjust the SIDE PIN control (RD51) for straight line at the right and left sides of the pattern.

WIDTH ADJUSTMENT

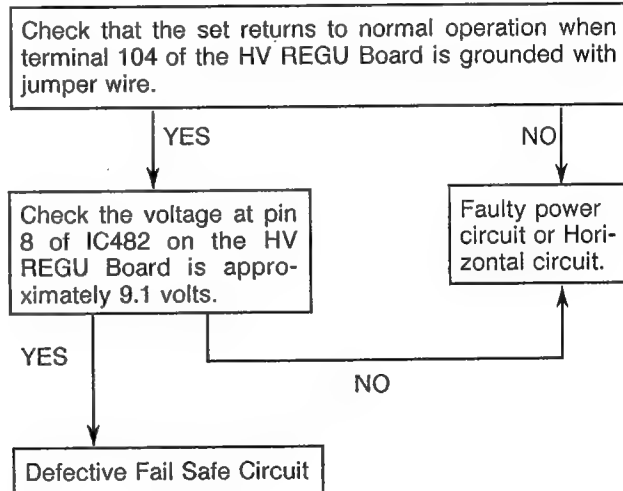
Adjust the WIDTH control (RD50) so the picture width does not lack on right and left sides when BRIGHTNESS Control is varied from minimum to maximum.

FS CIRCUIT CHECK

The Fail Safe (FS) circuit check is indispensable for the final check in servicing. Checking should be done following the steps below.

1. Turn the receiver on and press the RESET button.
2. Temporarily short TP-Ⓢ and TP-Ⓢ on the HV REGU Board with a jumper wire.
Raster and sound will disappear.
3. The receiver must remain in this state even after removing the jumper wire. This is the evidence that the FS circuit is functioning properly.
4. To obtain a picture again, temporarily turn the receiver off and allow the FS circuit more than 5 seconds to reset. Then turn the power switch on to produce a normal picture.

Troubleshooting Guide for Fail Safe Circuit



CHASSIS REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

CAUTION: The international hazard symbols in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 2. Do not degrade the safety of the receiver through improper servicing.

NOTICE: The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.

Models CX3586A

ABBREVIATIONS:

Capacitors..... CD	: Ceramic Disk	PF : Plastic Film	EL : Electrolytic
Resistors..... CF	: Carbon Film	CC : Carbon Composition	MF : Metal Film
OMF	: Oxide Metal Film	VR : Variable Resistor	FR : Fusible Resistor

(All CD and PF capacitors are $\pm 5\%$, 50V and all resistors, $\pm 5\%$, 1/6W unless otherwise noted.)

Location No.	Part No.	Description
CAPACITORS		
C062	24763101	EL, 100 μ F, $\pm 20\%$, 16V
C063	24205479	EL, 4.7 μ F, $\pm 20\%$, 35V
C064	24763471	EL, 470 μ F, $\pm 20\%$, 16V
C065	24794470	EL, 47 μ F, $\pm 20\%$, 16V
C072	24763101	EL, 100 μ F, $\pm 20\%$, 16V
C073	24205479	EL, 4.7 μ F, $\pm 20\%$, 35V
C074	24763101	EL, 100 μ F, $\pm 20\%$, 16V
C075	24794470	EL, 47 μ F, $\pm 20\%$, 16V
C180	24667101	EL, 100 μ F, $\pm 20\%$, 25V
C181	24617920	EL, 120 μ F, $\pm 20\%$, 25V
C182	24617920	EL, 120 μ F, $\pm 20\%$, 25V
C183	24617920	EL, 120 μ F, $\pm 20\%$, 25V
C184	24763221	EL, 220 μ F, $\pm 20\%$, 16V
C203	24591223	PF, 0.022 μ F
C213	24763221	EL, 220 μ F, $\pm 20\%$, 16V
C215	24206229	EL, 2.2 μ F, 50V
C220	24763101	EL, 100 μ F, $\pm 20\%$, 16V
C221	24766100	EL, 10 μ F, $\pm 20\%$, 50V
C230	24085939	EL, 4.7 μ F, $\pm 20\%$, 25V, Non-Polar
C241	24473120	CD, 12pF
C242	24473680	CD, 68pF
C243	24473470	CD, 47pF
C260	24206229	EL, 2.2 μ F, 50V
C261	24474103	CD, 0.01 μ F, $\pm 30\%$, 16V
C263	24474103	CD, 0.01 μ F, $\pm 30\%$, 16V
C264	24474103	CD, 0.01 μ F, $\pm 30\%$, 16V
C265	24763221	EL, 220 μ F, $\pm 20\%$, 16V
C266	24591103	PF, 0.01 μ F
C268	24474103	CD, 0.01 μ F, $\pm 30\%$, 16V
C271	24205100	EL, 10 μ F, $\pm 20\%$, 35V
C272	24205100	EL, 10 μ F, $\pm 20\%$, 35V
C273	24206228	EL, 0.22 μ F, 50V
C280	24591124	PF, 0.12 μ F
C303	24214471	CD, 470pF, $\pm 10\%$, 500V
C305	24617915	EL, 1 μ F, $\pm 10\%$, 50V
C306	24630014	EL, 6800 μ F, $\pm 10\%$, 20V
C307	24693473	PF, 0.047 μ F, 100V
C308	24630793	EL, 150 μ F, $\pm 10\%$, 35V
C310	24668222	EL, 2200 μ F, $\pm 20\%$, 35V

Location No.	Part No.	Description
C311	24214561	CD, 560pF, $\pm 10\%$, 500V
C312	24082049	PF, 0.047 μ F, 100V
C313	24082057	PF, 0.22 μ F, 100V
C314	24591563	PF, 0.056 μ F
C320	24796101	EL, 100 μ F, 35V
C341	24473680	CD, 68pF
C342	24617915	EL, 1 μ F, $\pm 10\%$, 50V
C344	24206229	EL, 2.2 μ F, 50V
C347	24474102	CD, 1000pF, $\pm 10\%$
C400	24474103	CD, 0.01 μ F, $\pm 30\%$, 16V
C402	24474103	CD, 0.01 μ F, $\pm 30\%$, 16V
C403	24763101	EL, 100 μ F, $\pm 20\%$, 16V
C405	24436101	CD, 100pF
C409	24474102	CD, 1000pF, $\pm 10\%$
C410	24212271	CD, 270pF, $\pm 10\%$
C412	24591133	PF, 0.013 μ F
C413	24214332	CD, 3300pF, $\pm 10\%$, 500V
C416	24677100	EL, 10 μ F, $\pm 20\%$, 160V
C417	24214821	CD, 820pF, $\pm 10\%$, 500V
C421	24538104	PF, 0.1 μ F
C422	24436331	CD, 330pF
C423	24763101	EL, 100 μ F, $\pm 20\%$, 16V
C429	24085040	EL, 2.2 μ F, 250V, Non-Polar
C430	24763221	EL, 220 μ F, $\pm 20\%$, 16V
C431	24765101	EL, 100 μ F, $\pm 20\%$, 35V
△ C440	24095892	PF, 6800pF, $\pm 3\%$, 1600V
△ C441	24095911	PF, 6800pF, $\pm 3\%$, 1250V
△ C442	24095827	PF, 0.2 μ F, 200V
△ C443	24095827	PF, 0.2 μ F, 200V
△ C444	24095767	PF, 6200pF, $\pm 3\%$, 2kV
C445	24833223	PF, 0.022 μ F, $\pm 10\%$, 200V
C446	24828303	PF, 0.03 μ F, 200V
C447	24086034	EL, 470 μ F, $\pm 20\%$, 250V
C448	24640908	EL, 33 μ F, $\pm 20\%$, 160V
C449	24764222	EL, 2200 μ F, $\pm 20\%$, 25V
C463	24212152	CD, 1500pF, $\pm 10\%$
C464	24095750	PF, 0.3 μ F, 200V
C465	24092335	CD, 150pF, $\pm 10\%$, 2kV
C466	24092341	CD, 470pF, $\pm 10\%$, 2kV
C469	24591473	PF, 0.047 μ F
C470	24591753	PF, 0.075 μ F

Location No.	Part No.	Description
C471	24828333	PF, 0.033 μ F, 200V
C481	24538224	PF, 0.22 μ F
C482	24591152	PF, 1500pF
C483	24640908	EL, 33 μ F, $\pm 20\%$, 160V
C485	24765101	EL, 100 μ F, $\pm 20\%$, 35V
C486	24232103	CD, 0.01 μ F, +80%, -20%
C487	24640908	EL, 33 μ F, $\pm 20\%$, 160V
C488	24232103	CD, 0.01 μ F, +80%, -20%
C490	24679220	EL, 22 μ F, $\pm 20\%$, 250V
C491	24082358	PF, 1000pF, $\pm 10\%$, 15kV
C501	24591333	PF, 0.033 μ F
C502	24591333	PF, 0.033 μ F
C508	24591472	PF, 4700pF
C509	24472110	CD, 11pF
C512	24474103	CD, 0.01 μ F, $\pm 30\%$, 16V
C514	24591183	PF, 0.018 μ F
C640	24667470	EL, 47 μ F, $\pm 20\%$, 25V
C642	24591102	PF, 1000pF
C645	24591102	PF, 1000pF
C649	24667470	EL, 47 μ F, $\pm 20\%$, 25V
C650	24667470	EL, 47 μ F, $\pm 20\%$, 25V
C651	24668101	EL, 100 μ F, $\pm 20\%$, 35V
C652	24668471	EL, 470 μ F, $\pm 20\%$, 35V
C654	24591124	PF, 0.12 μ F
C658	24668471	EL, 470 μ F, $\pm 20\%$, 35V
C659	24591124	PF, 0.12 μ F
C691	24232103	CD, 0.01 μ F, +80%, -20%
C701	24203470	EL, 47 μ F, $\pm 20\%$, 16V
C702	24203101	EL, 100 μ F, $\pm 20\%$, 16V
C703	24436820	CD, 82pF
C704	24232103	CD, 0.01 μ F, +80%, -20%
C705	24232103	CD, 0.01 μ F, +80%, -20%
C706	24436470	CD, 47pF
C707	24203470	EL, 47 μ F, $\pm 20\%$, 16V
C708	24232103	CD, 0.01 μ F, +80%, -20%
C712	24203470	EL, 47 μ F, $\pm 20\%$, 16V
C714	24436101	CD, 100pF
C715	24214472	CD, 4700pF, $\pm 10\%$, 500V
C716	24436101	CD, 100pF
C717	24214472	CD, 4700pF, $\pm 10\%$, 500V
C719	24434560	CD, 56pF, $\pm 10\%$, 500V
C722	24436561	CD, 560pF
△ C802	24092300	CD, 0.01 μ F, +80%, -20%, AC250V
△ C803	24092300	CD, 0.01 μ F, +80%, -20%, AC250V
△ C804	24082001	PF, 0.47 μ F, $\pm 20\%$, AC125V
C807	24538474	PF, 0.47 μ F
C810	24086932	EL, 1000 μ F, $\pm 20\%$, 200V
△ C811	24092270	CD, 4700pF, $\pm 20\%$, AC125V
△ C812	24094820	CD, 2200pF, $\pm 20\%$, AC125V
C813	24092270	CD, 4700pF, $\pm 20\%$, AC125V
△ C814	24094820	CD, 2200pF, $\pm 20\%$, AC125V
C830	24086958	EL, 10000 μ F, 35V
C840	24764222	EL, 2200 μ F, $\pm 20\%$, 25V
C842	24082229	PF, 0.1 μ F, $\pm 10\%$, 250V
C843	24591104	PF, 0.1 μ F
C844	24792102	EL, 1000 μ F, 6.3V
C860	24591222	PF, 2200pF
C861	24214331	CD, 330pF, $\pm 10\%$, 500V
C862	24214331	CD, 330pF, $\pm 10\%$, 500V
C863	24677470	EL, 47 μ F, $\pm 20\%$, 160V
C864	24092335	CD, 150pF, $\pm 10\%$, 2kV
C865	24092346	CD, 1200pF, $\pm 10\%$, 2kV

Location No.	Part No.	Description
C866	24092345	CD, 1000pF, $\pm 10\%$, 2kV
C867	24232103	CD, 0.01 μ F, +80%, -20%
C868	24591104	PF, 0.1 μ F
C869	24212152	CD, 1500pF, $\pm 10\%$
C871	24669220	EL, 22 μ F, $\pm 20\%$, 50V
C881	24092341	CD, 470pF, $\pm 10\%$, 2kV
C882	24092341	CD, 470pF, $\pm 10\%$, 2kV
C883	24214821	CD, 820pF, $\pm 10\%$, 500V
C885	24214821	CD, 820pF, $\pm 10\%$, 500V
C886	24214331	CD, 330pF, $\pm 10\%$, 500V
C887	24214331	CD, 330pF, $\pm 10\%$, 500V
C888	24092337	CD, 220pF, $\pm 10\%$, 2kV
C889	24668332	EL, 3300 μ F, $\pm 20\%$, 35V
C890	24092338	CD, 270pF, $\pm 10\%$, 2kV
C891	24667102	EL, 1000 μ F, $\pm 20\%$, 25V
C892	24677101	EL, 100 μ F, $\pm 20\%$, 160V
C902	24092349	CD, 2200pF, $\pm 10\%$, 2kV
C903	24215102	CD, 1000pF, $\pm 10\%$, 1kV
C904	24591104	PF, 0.1 μ F
C905	24591104	PF, 0.1 μ F
C906	24591104	PF, 0.1 μ F
C911	24436391	CD, 390pF
C912	24436301	CD, 300pF
C913	24436391	CD, 390pF
C930	24763471	EL, 470 μ F, $\pm 20\%$, 16V
C940	24232103	CD, 0.01 μ F, +80%, -20%
CA03	24794101	EL, 100 μ F, $\pm 20\%$, 16V
CA13	24473120	CD, 12pF
CA14	24473120	CD, 12pF
CA18	24474101	CD, 100pF, $\pm 10\%$
CA21	24474101	CD, 100pF, $\pm 10\%$
CA40	24474102	CD, 1000pF, $\pm 10\%$
CA41	24212102	CD, 1000pF, $\pm 10\%$
CA42	24212102	CD, 1000pF, $\pm 10\%$
CA43	24797229	EL, 2.2 μ F, $\pm 20\%$, 50V
CA44	24474103	CD, 0.01 μ F, $\pm 30\%$, 16V
CA45	24794100	EL, 10 μ F, $\pm 20\%$, 16V
CA46	24591132	PF, 1300pF
CA47	24436561	CD, 560pF
CA48	24591102	PF, 1000pF
CA49	24232103	CD, 0.01 μ F, +80%, -20%
CA60	24797330	EL, 33 μ F, 50V
CA65	24666100	EL, 10 μ F, $\pm 20\%$, 16V
CA72	24761222	EL, 2200 μ F, $\pm 20\%$, 6.3V
CB01	24669229	EL, 2.2 μ F, $\pm 20\%$, 50V
CB02	24591102	PF, 1000pF
CB45	24591132	PF, 1300pF
CB46	24666100	EL, 10 μ F, $\pm 20\%$, 16V
CB47	24436561	CD, 560pF
CB48	24591102	PF, 1000pF
CB49	24797229	EL, 2.2 μ F, $\pm 20\%$, 50V
CC01	24763101	EL, 100 μ F, $\pm 20\%$, 16V
CC02	24085988	EL, 1 μ F, $\pm 20\%$, 50V, Non-Polar
CC03	24085988	EL, 1 μ F, $\pm 20\%$, 50V, Non-Polar
CC04	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CC05	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CC06	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CC07	24474103	CD, 0.01 μ F, $\pm 30\%$, 16V
CC08	24763221	EL, 220 μ F, $\pm 20\%$, 16V
CC10	24474391	CD, 390pF, $\pm 10\%$
CC11	24591272	PF, 2700pF
CC12	24591682	PF, 6800pF

Location No.	Part No.	Description
CC13	24591272	PF, 2700pF
CC14	24591682	PF, 6800pF
CC15	24206479	EL, 4.7 μ F, 50V
CC16	24474391	CD, 390pF, $\pm 10\%$
CC17	24591333	PF, 0.033 μ F
CC20	24591104	PF, 0.1 μ F
CC21	24762221	EL, 220 μ F, $\pm 20\%$, 10V
CC22	24203101	EL, 100 μ F, $\pm 20\%$, 16V
CC23	24591272	PF, 2700pF
CC24	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CC25	24473330	CD, 33pF
CC26	24473330	CD, 33pF
CC27	24206479	EL, 4.7 μ F, 50V
CC28	24762221	EL, 220 μ F, $\pm 20\%$, 10V
CC29	24591104	PF, 0.1 μ F
CC30	24474391	CD, 390pF, $\pm 10\%$
CC31	24591272	PF, 2700pF
CC32	24206010	EL, 1 μ F, 50V
CC35	24474103	CD, 0.01 μ F, $\pm 30\%$, 16V
CC36	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CC37	24474103	CD, 0.01 μ F, $\pm 30\%$, 16V
CC39	24591682	PF, 6800pF
CD01	24796101	EL, 100 μ F, 35V
△ CD02	24082095	PF, 0.018 μ F, $\pm 3\%$, 630V
CD05	24591273	PF, 0.027 μ F
CD06	24668470	EL, 47 μ F, $\pm 20\%$, 35V
CD07	24668471	EL, 470 μ F, $\pm 20\%$, 35V
CD08	24591104	PF, 0.1 μ F
CD09	24591104	PF, 0.1 μ F
CD10	24206229	EL, 2.2 μ F, 50V
CD11	24640872	EL, 10 μ F, $\pm 20\%$, 100V
CD14	24591104	PF, 0.1 μ F
CD15	24206229	EL, 2.2 μ F, 50V
CG01	24206478	EL, 0.47 μ F, 50V
CG12	24232103	CD, 0.01 μ F, $+80\%$, -20%
CG21	24206479	EL, 4.7 μ F, 50V
CG22	24538473	PF, 0.047 μ F
CG23	24206479	EL, 4.7 μ F, 50V
CG24	24206479	EL, 4.7 μ F, 50V
CG25	24704335	Tantalum, 3.3 μ F, $\pm 20\%$, 16V
CG26	24206010	EL, 1 μ F, 50V
CG27	24704106	Tantalum, 10 μ F, $\pm 20\%$, 16V
CG28	24206479	EL, 4.7 μ F, 50V
CG30	24591272	PF, 2700pF
CG31	24203101	EL, 100 μ F, $\pm 20\%$, 16V
CG33	24794470	EL, 47 μ F, $\pm 20\%$, 16V
CG37	24206228	EL, 0.22 μ F, 50V
CG39	24206479	EL, 4.7 μ F, 50V
CG40	24591123	PF, 0.012 μ F
CG41	24591562	PF, 5600pF
CG61	24085958	EL, 1 μ F, $\pm 20\%$, 50V, Non-Polar
CN01	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CN02	24203220	EL, 22 μ F, $\pm 20\%$, 16V
CN03	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CN04	24591393	PF, 0.039 μ F
CN07	24763101	EL, 100 μ F, $\pm 20\%$, 16V
CN21	24206010	EL, 1 μ F, 50V
CN22	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CN23	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CN24	24206010	EL, 1 μ F, 50V
CN77	24538473	PF, 0.047 μ F
CN81	24203100	EL, 10 μ F, $\pm 20\%$, 16V

Location No.	Part No.	Description
CN82	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CN83	24206010	EL, 1 μ F, 50V
CN84	24206010	EL, 1 μ F, 50V
CN85	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CN86	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CN87	24538124	PF, 0.12 μ F
CN88	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CN93	24206339	EL, 3.3 μ F, 50V
CN94	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CN95	24206108	EL, 0.1 μ F, 50V
CN96	24206010	EL, 1 μ F, 50V
CN97	24206479	EL, 4.7 μ F, 50V
CN98	24203101	EL, 100 μ F, $\pm 20\%$, 16V
CN99	24206479	EL, 4.7 μ F, 50V
CS01	24212391	CD, 390pF, $\pm 10\%$
CS02	24206229	EL, 2.2 μ F, 50V
CS03	24212391	CD, 390pF, $\pm 10\%$
CS04	24206229	EL, 2.2 μ F, 50V
CS05	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CS06	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CS08	24206229	EL, 2.2 μ F, 50V
CS09	24212391	CD, 390pF, $\pm 10\%$
CS10	24206229	EL, 2.2 μ F, 50V
CS11	24212391	CD, 390pF, $\pm 10\%$
CS12	24212391	CD, 390pF, $\pm 10\%$
CS13	24212391	CD, 390pF, $\pm 10\%$
CS14	24206229	EL, 2.2 μ F, 50V
CS16	24206229	EL, 2.2 μ F, 50V
CS23	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CS24	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CS30	24212102	CD, 1000pF, $\pm 10\%$
CS32	24794470	EL, 47 μ F, $\pm 20\%$, 16V
CS33	24592104	PF, 0.1 μ F, $\pm 10\%$
CS34	24206229	EL, 2.2 μ F, 50V
CS35	24794470	EL, 47 μ F, $\pm 20\%$, 16V
CS36	24206229	EL, 2.2 μ F, 50V
CS38	24794470	EL, 47 μ F, $\pm 20\%$, 16V
CS39	24794101	EL, 100 μ F, $\pm 20\%$, 16V
CS40	24592154	PF, 0.15 μ F, $\pm 10\%$
CS41	24794101	EL, 100 μ F, $\pm 20\%$, 16V
CS42	24592224	PF, 0.22 μ F, $\pm 10\%$
CS43	24592224	PF, 0.22 μ F, $\pm 10\%$
CS44	24538103	PF, 0.01 μ F
CS45	24538103	PF, 0.01 μ F
CV01	24232103	CD, 0.01 μ F, $+80\%$, -20%
CV01	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CV03	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CV05	24474102	CD, 1000pF, $\pm 10\%$
CV06	24763471	EL, 470 μ F, $\pm 20\%$, 16V
CV07	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CV08	24436220	CD, 22pF
CV10	24763471	EL, 470 μ F, $\pm 20\%$, 16V
CV13	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CV15	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CV17	24232103	CD, 0.01 μ F, $+80\%$, -20%
CV23	24232103	CD, 0.01 μ F, $+80\%$, -20%
CV25	24203100	EL, 10 μ F, $\pm 20\%$, 16V
CV30	24203220	EL, 22 μ F, $\pm 20\%$, 16V
CV32	24763471	EL, 470 μ F, $\pm 20\%$, 16V
CV33	24763471	EL, 470 μ F, $\pm 20\%$, 16V
CV35	24085939	EL, 4.7 μ F, $\pm 20\%$, 25V, Non-Polar
CV70	24206100	EL, 10 μ F, 50V
CV71	24232103	CD, 0.01 μ F, $+80\%$, -20%

Location No.	Part No.	Description
CV72	24203100	EL, 10 μ F, \pm 20%, 16V
CV73	24203100	EL, 10 μ F, \pm 20%, 16V
CV74	24203330	EL, 33 μ F, \pm 20%, 16V
CV91	24203100	EL, 10 μ F, \pm 20%, 16V
CV92	24232103	CD, 0.01 μ F, +80%, -20%
CVO4	24212102	CD, 1000pF, \pm 10%
CV101	24203100	EL, 10 μ F, \pm 20%, 16V
CX01	24794470	EL, 47 μ F, \pm 20%, 16V
CX02	24762102	EL, 1000 μ F, \pm 20%, 10V
CX03	24212181	CD, 180pF, \pm 10%
CX06	24474103	CD, 0.01 μ F, \pm 30%, 16V
CY01	24591182	PF, 1800pF
CY02	24591242	PF, 2400pF
CY03	24591223	PF, 0.022 μ F
CY04	24763102	EL, 1000 μ F, \pm 20%, 16V
CY05	24794100	EL, 10 μ F, \pm 20%, 16V
CY06	24781201	Chip, 200pF
CY08	24781221	Chip, 220pF
CY09	24781102	Chip, 1000pF
CY10	24206010	EL, 1 μ F, 50V
CY11	24591183	PF, 0.018 μ F
CY12	24206479	EL, 4.7 μ F, 50V
CY13	24591102	PF, 1000pF
CY14	24206010	EL, 1 μ F, 50V
CY15	24814103	Chip, 0.01 μ F, +80%, -20%
CY16	24781390	Chip, 39pF
CY17	24781301	Chip, 300pF
CY18	24206478	EL, 0.47 μ F, 50V
CY19	24203100	EL, 10 μ F, \pm 20%, 16V
CY20	24814103	Chip, 0.01 μ F, +80%, -20%
CY21	24781470	Chip, 47pF
CY22	24781111	Chip, 110pF
CY24	24203101	EL, 100 μ F, \pm 20%, 16V
CY25	24591104	PF, 0.1 μ F
CY26	24814103	Chip, 0.01 μ F, +80%, -20%
CY27	24092293	Chip, 0.1 μ F, +80%, -20%, 25V
CY28	24206478	EL, 0.47 μ F, 50V
CY29	24814103	Chip, 0.01 μ F, +80%, -20%
CY30	24781120	Chip, 12pF
CY31	24814103	Chip, 0.01 μ F, +80%, -20%
CY32	24206010	EL, 1 μ F, 50V
CY33	24814103	Chip, 0.01 μ F, +80%, -20%
CY34	24203220	EL, 22 μ F, \pm 20%, 16V
CY35	24781910	Chip, 91pF
CY36	24781101	Chip, 100pF
CY37	24781910	Chip, 91pF
CY38	24781101	Chip, 100pF
CY39	24781330	Chip, 33pF
CY41	24204330	EL, 33 μ F, \pm 20%, 25V
CY42	24814103	Chip, 0.01 μ F, +80%, -20%
CY43	24206229	EL, 2.2 μ F, 50V
CY44	24206229	EL, 2.2 μ F, 50V
CY45	24206229	EL, 2.2 μ F, 50V
CY46	24781330	Chip, 33pF
CY47	24781330	Chip, 33pF
CY48	24781330	Chip, 33pF
CY49	24781330	Chip, 33pF
CY60	24781330	Chip, 33pF
CY61	24781330	Chip, 33pF
CY62	24781330	Chip, 33pF
CY63	24781330	Chip, 33pF
CY64	24814103	Chip, 0.01 μ F, +80%, -20%
CY65	24781330	Chip, 33pF

Location No.	Part No.	Description
CY66	24814103	Chip, 0.01 μ F, +80%, -20%
CY67	24203100	EL, 10 μ F, \pm 20%, 16V
CY68	24814103	Chip, 0.01 μ F, +80%, -20%
CY69	24092293	Chip, 0.1 μ F, +80%, -20%, 25V
CY70	24204330	EL, 33 μ F, \pm 20%, 25V
CY71	24781330	Chip, 33pF
CY72	24781151	Chip, 150pF
CY73	24781330	Chip, 33pF
CY74	24781151	Chip, 150pF
CY75	24781470	Chip, 47pF
CY76	24781470	Chip, 47pF
CY77	24781470	Chip, 47pF
CY78	24206010	EL, 1 μ F, 50V
CY79	24206010	EL, 1 μ F, 50V
CY80	24206010	EL, 1 μ F, 50V
CY81	24781101	Chip, 100pF
CY82	24203220	EL, 22 μ F, \pm 20%, 16V
CY83	24206478	EL, 0.47 μ F, 50V
CY84	24204330	EL, 33 μ F, \pm 20%, 25V
CY85	24814103	Chip, 0.01 μ F, +80%, -20%
CY86	24206010	EL, 1 μ F, 50V
CY87	24204330	EL, 33 μ F, \pm 20%, 25V
CY88	24781111	Chip, 110pF
CY89	24206010	EL, 1 μ F, 50V
CY90	24591223	PF, 0.022 μ F
CY91	24781101	Chip, 100pF
CY100	24781201	Chip, 200pF
CY101	24203100	EL, 10 μ F, \pm 20%, 16V
CY102	24781330	Chip, 33pF
CY103	24781111	Chip, 110pF
CY107	24795100	EL, 10 μ F, \pm 20%, 25V
CY108	24794101	EL, 100 μ F, \pm 20%, 16V
CY130	24795100	EL, 10 μ F, \pm 20%, 25V
CY160	24794100	EL, 10 μ F, \pm 20%, 16V
CY601	24203100	EL, 10 μ F, \pm 20%, 16V
CY602	24232103	CD, 0.01 μ F, +80%, -20%
CY603	24203330	EL, 33 μ F, \pm 20%, 16V
CY604	24203100	EL, 10 μ F, \pm 20%, 16V
CY605	24232103	CD, 0.01 μ F, +80%, -20%
CY606	24203100	EL, 10 μ F, \pm 20%, 16V
CY607	24232103	CD, 0.01 μ F, +80%, -20%
CY608	24203100	EL, 10 μ F, \pm 20%, 16V
CY609	24203330	EL, 33 μ F, \pm 20%, 16V
CY610	24666100	EL, 10 μ F, \pm 20%, 16V
CY612	24232103	CD, 0.01 μ F, +80%, -20%
CY613	24666221	EL, 220 μ F, \pm 20%, 16V
CY616	24797339	EL, 3.3 μ F, \pm 20%, 50V
CY617	24232103	CD, 0.01 μ F, +80%, -20%
CY619	24203100	EL, 10 μ F, \pm 20%, 16V
CY620	24203100	EL, 10 μ F, \pm 20%, 16V
CZ02	24203100	EL, 10 μ F, \pm 20%, 16V
CZ04	24538104	PF, 0.1 μ F
CZ11	24538104	PF, 0.1 μ F
CZ20	24232103	CD, 0.01 μ F, +80%, -20%
CZ21	24232103	CD, 0.01 μ F, +80%, -20%
CZ26	24232103	CD, 0.01 μ F, +80%, -20%
CZ27	24203220	EL, 22 μ F, \pm 20%, 16V
CZ28	24206010	EL, 1 μ F, 50V
CZ29	24591473	PF, 0.047 μ F
CZ30	24206010	EL, 1 μ F, 50V
CZ31	24206010	EL, 1 μ F, 50V
CZ32	24232103	CD, 0.01 μ F, +80%, -20%
CZ33	24203220	EL, 22 μ F, \pm 20%, 16V

Location No.	Part No.	Description
CZ34	24203470	EL, 47 μ F, \pm 20%, 16V
CZ35	24591104	PF, 0.1 μ F
CZ36	24206108	EL, 0.1 μ F, 50V
CZ37	24206010	EL, 1 μ F, 50V
CZ44	24232103	CD, 0.01 μ F, +80%, -20%
CZ57	24232103	CD, 0.01 μ F, +80%, -20%
CZ58	24232103	CD, 0.01 μ F, +80%, -20%
CZ60	24591473	PF, 0.047 μ F
CZ61	24206010	EL, 1 μ F, 50V
CZ62	24206010	EL, 1 μ F, 50V
CZ66	24232103	CD, 0.01 μ F, +80%, -20%
CZ71	24232103	CD, 0.01 μ F, +80%, -20%
CZ73	24232103	CD, 0.01 μ F, +80%, -20%
CZ74	24203100	EL, 10 μ F, \pm 20%, 16V
CZ75	24232103	CD, 0.01 μ F, +80%, -20%
CZ76	24232103	CD, 0.01 μ F, +80%, -20%
CZ77	24232103	CD, 0.01 μ F, +80%, -20%
CZ78	24232103	CD, 0.01 μ F, +80%, -20%
CZ79	24203220	EL, 22 μ F, \pm 20%, 16V
CZ80	24232103	CD, 0.01 μ F, +80%, -20%
CZ81	24085970	EL, 10 μ F, \pm 20%, 16V, Non-Polar
CZ82	24203100	EL, 10 μ F, \pm 20%, 16V
CZ83	24232103	CD, 0.01 μ F, +80%, -20%
CZ84	24232103	CD, 0.01 μ F, +80%, -20%
CZ85	24232103	CD, 0.01 μ F, +80%, -20%
CZ86	24206479	EL, 4.7 μ F, 50V
CZ87	24203100	EL, 10 μ F, \pm 20%, 16V
CZ88	24232103	CD, 0.01 μ F, +80%, -20%
CZ89	24203470	EL, 47 μ F, \pm 20%, 16V
CZ90	24232103	CD, 0.01 μ F, +80%, -20%
CZ91	24173910	Chip, 91pF, \pm 10%
CZ92	24436240	CD, 24pF
CZ93	24436430	CD, 43pF
CZ94	24173910	Chip, 91pF, \pm 10%
CZ95	24436240	CD, 24pF
CZ96	24436430	CD, 43pF
CZ97	24436620	CD, 62pF
CZ98	24436620	CD, 62pF
CZ99	24436620	CD, 62pF
RESISTORS		
R041	24366103	CF, 10k ohm
R042	24366473	CF, 47k ohm
R043	24366363	CF, 36k ohm
R063	24366224	CF, 220k ohm
R081	24366103	CF, 10k ohm
R082	24366473	CF, 47k ohm
R083	24366363	CF, 36k ohm
△ R181	24323439	OMF, 4.3 ohm, 2W
R201	24366332	CF, 3300 ohm
R202	24366561	CF, 560 ohm
R203	24366102	CF, 1k ohm
R204	24366153	CF, 15k ohm
R205	24366472	CF, 4700 ohm
R206	24366394	CF, 390k ohm
R207	24366823	CF, 82k ohm
R208	24366101	CF, 100 ohm
R209	24366561	CF, 560 ohm
R210	24366132	CF, 1300 ohm
R211	24366123	CF, 12k ohm
R212	24366242	CF, 2400 ohm
R215	24366153	CF, 15k ohm
R217	24366122	CF, 1200 ohm

Location No.	Part No.	Description
R218	24367513	CF, 51k ohm, \pm 2%
R219	24366244	CF, 240k ohm
R220	24366101	CF, 100 ohm
R221	24366101	CF, 100 ohm
R222	24366101	CF, 100 ohm
R223	24366101	CF, 100 ohm
R224	24366332	CF, 3300 ohm
R225	24366332	CF, 3300 ohm
R226	24366332	CF, 3300 ohm
R227	24367153	CF, 15k ohm, \pm 2%
R228	24366184	CF, 180k ohm
R229	24366103	CF, 10k ohm
R230	24366273	CF, 27k ohm
R232	24366221	CF, 220 ohm
R233	24366103	CF, 10k ohm
R234	24872101	Chip, 100 ohm, 1/16W
R236	24366152	CF, 1500 ohm
R237	24366821	CF, 820 ohm
R238	24366123	CF, 12k ohm
R239	24872332	Chip, 3300 ohm, 1/16W
R240	24366103	CF, 10k ohm
R241	24366302	CF, 3k ohm
R242	24366103	CF, 10k ohm
R243	24366132	CF, 1300 ohm
R244	24366103	CF, 10k ohm
R247	24366102	CF, 1k ohm
R249	24366181	CF, 180 ohm
R257	24066611	VR, 2k ohm, 0.3W
R260	24366624	CF, 620k ohm
R261	24366563	CF, 56k ohm
R262	24366274	CF, 270k ohm
R263	24366223	CF, 22k ohm
R264	24366223	CF, 22k ohm
R265	24366221	CF, 220 ohm
R267	24366752	CF, 7500 ohm
R268	24366274	CF, 270k ohm
R269	24366473	CF, 47k ohm
R270	24366224	CF, 220k ohm
R271	24366821	CF, 820 ohm
R272	24366102	CF, 1k ohm
R273	24366114	CF, 110k ohm
R274	24366473	CF, 47k ohm
R275	24366364	CF, 360k ohm
R276	24366221	CF, 220 ohm
R277	24366221	CF, 220 ohm
R278	24366221	CF, 220 ohm
R279	24366472	CF, 4700 ohm
R281	24366562	CF, 5600 ohm
R282	24366184	CF, 180k ohm
R286	24366684	CF, 680k ohm
R287	24366274	CF, 270k ohm
R290	24366153	CF, 15k ohm
△ R301	24323759	OMF, 7.5 ohm, 2W
R303	24366303	CF, 30k ohm
R304	24366184	CF, 180k ohm
R305	24322918	OMF, 0.91 ohm, 1W
R306	24366473	CF, 47k ohm
R307	24366624	CF, 620k ohm
R310	24366303	CF, 30k ohm
R311	24366624	CF, 620k ohm
R312	24552122	OMF, 1200 ohm, 1/2W
△ R317	24383510	OMF, 51 ohm, 2W
△ R327	24000577	FR, 5.6 ohm, 1W
△ R336	24383221	OMF, 220 ohm, 2W

Location No.	Part No.	Description
R337	24552132	OMF, 1300 ohm, 1/2W
R340	24366362	CF, 3600 ohm
R341	24366102	CF, 1k ohm
R342	24366273	CF, 27k ohm
R343	24366102	CF, 1k ohm
R352	24066615	VR, 50k ohm, 0.3W
R360	24552561	OMF, 560 ohm, 1/2W
R370	24552102	OMF, 1k ohm, 1/2W
R401	24366391	CF, 390 ohm
R403	24366912	CF, 9100 ohm
R404	24366101	CF, 100 ohm
R405	24552132	OMF, 1300 ohm, 1/2W
R406	24366103	CF, 10k ohm
R407	24366562	CF, 5600 ohm
R408	24366392	CF, 3900 ohm
R409	24382393	OMF, 39k ohm, 1W
△ R410	24383511	OMF, 510 ohm, 2W
R411	24366391	CF, 390 ohm
R412	24366562	CF, 5600 ohm
R413	24366181	CF, 180 ohm
R415	24553242	OMF, 2400 ohm, 1W
△ R416	24007625	Cement, 2k ohm, 7W
R418	24382101	OMF, 100 ohm, 1W
R419	24366223	CF, 22k ohm
R420	24366822	CF, 8200 ohm
R421	24366514	CF, 510k ohm
R423	24366102	CF, 1k ohm
R424	24366101	CF, 100 ohm
R425	24366100	CF, 10 ohm
R430	24366202	CF, 2k ohm
△ R431	24000211	FR, 15 ohm, 1/2W
△ R441	24532102	FR, 1k ohm, 1W
R445	24322398	OMF, 0.39 ohm, 1W
R446	24552560	OMF, 56 ohm, 1/2W
R447	24553473	OMF, 47k ohm, 1W
R450	24066879	VR, 1k ohm, 0.3W
R451	24066952	VR, 10k ohm, 1/10W
R461	24366333	CF, 33k ohm
△ R464	24327153	MF, 15k ohm, $\pm 1\%$, 1/4W
△ R465	24367102	CF, 1k ohm, $\pm 2\%$
△ R466	24327622	MF, 6200 ohm, $\pm 1\%$, 1/4W
R467	24366152	CF, 1500 ohm
R474	24366222	CF, 2200 ohm
△ R480	24533151	FR, 150 ohm, 2W
R481	24552272	OMF, 2700 ohm, 1/2W
△ R482	24383153	OMF, 15k ohm, 2W
R483	24366910	CF, 91 ohm
R484	24366202	CF, 2k ohm
R485	24366472	CF, 4700 ohm
R486	24366432	CF, 4300 ohm
R487	24366432	CF, 4300 ohm
R488	24366114	CF, 110k ohm
R489	24366302	CF, 3k ohm
R490	24366302	CF, 3k ohm
R491	24553392	OMF, 3900 ohm, 1W
R492	24366104	CF, 100k ohm
R495	24366183	CF, 18k ohm
R496	24366333	CF, 33k ohm
R497	24366202	CF, 2k ohm
R499	24366183	CF, 18k ohm
R501	24366392	CF, 3900 ohm
R503	24366392	CF, 3900 ohm
R509	24366332	CF, 3300 ohm
R510	24366103	CF, 10k ohm

Location No.	Part No.	Description
R512	24366392	CF, 3900 ohm
R516	24366752	CF, 7500 ohm
R519	24366475	CF, 4.7M ohm
R526	24366103	CF, 10k ohm
R561	24366104	CF, 100k ohm
R564	24366124	CF, 120k ohm
R640	24366122	CF, 1200 ohm
R641	24366512	CF, 5100 ohm
R645	24366122	CF, 1200 ohm
R646	24366512	CF, 5100 ohm
R648	24366229	CF, 2.2 ohm
R660	24366229	CF, 2.2 ohm
R665	24552331	OMF, 330 ohm, 1/2W
R666	24552331	OMF, 330 ohm, 1/2W
R668	24360103	CF, 10k ohm, 1/8W
R669	24360103	CF, 10k ohm, 1/8W
R701	24366153	CF, 15k ohm
R703	24366511	CF, 510 ohm
R704	24366102	CF, 1k ohm
R705	24366222	CF, 2200 ohm
R706	24366102	CF, 1k ohm
R708	24366102	CF, 1k ohm
R713	24366511	CF, 510 ohm
R714	24552680	OMF, 68 ohm, 1/2W
R715	24366203	CF, 20k ohm
R715	24366203	CF, 20k ohm
R716	24366273	CF, 27k ohm
R716	24366273	CF, 27k ohm
R717	24366333	CF, 33k ohm
R718	24366222	CF, 2200 ohm
R721	24366102	CF, 1k ohm
R722	24552471	OMF, 470 ohm, 1/2W
R723	24366471	CF, 470 ohm
R724	24366470	CF, 47 ohm
R725	24366182	CF, 1800 ohm
R730	24552100	OMF, 10 ohm, 1/2W
R731	24552301	OMF, 300 ohm, 1/2W
R732	24366820	CF, 82 ohm
R733	24366683	CF, 68k ohm
R734	24366820	CF, 82 ohm
R735	24366683	CF, 68k ohm
R736	24552430	OMF, 43 ohm, 1/2W
R737	24366152	CF, 1500 ohm
R738	24366123	CF, 12k ohm
R739	24366152	CF, 1500 ohm
R740	24552430	OMF, 43 ohm, 1/2W
R741	24321279	OMF, 2.7 ohm, 1/2W
R742	24321279	OMF, 2.7 ohm, 1/2W
△ R743	24554221	OMF, 220 ohm, 2W
R744	24366122	CF, 1200 ohm
R745	24366122	CF, 1200 ohm
R803	24321438	OMF, 0.43 ohm, 1/2W
△ R804	24002994	CC, 3.9M ohm, 1/2W
△ R805	24002994	CC, 3.9M ohm, 1/2W
△ R808	24000862	PTC Thermistor, 7 ohm, $\pm 20\%$, 140V
△ R810	24007483	Cement, 1.1 ohm, 20W
R811	24007416	Cement, 82 ohm, 5W
R840	24552180	OMF, 18 ohm, 1/2W
R841	24366273	CF, 27k ohm
R842	24366153	CF, 15k ohm
R843	24366102	CF, 1k ohm
R860	24004704	MF, 0.18 ohm, 2W
R862	24941203	CC, 2k ohm, 1/4W

Location No.	Part No.	Description
RG53	24066926	VR, 10k ohm, 1/10W
RG60	24327272	MF, 2700 ohm, $\pm 1\%$, 1/4W
RG61	24366683	CF, 68k ohm
RG62	24366472	CF, 4700 ohm
RG63	24366222	CF, 2200 ohm
RG64	24366223	CF, 22k ohm
RG65	24366562	CF, 5600 ohm
RG70	24366223	CF, 22k ohm
RG81	24366103	CF, 10k ohm
RG91	24366103	CF, 10k ohm
RN04	24366333	CF, 33k ohm
RN05	24366472	CF, 4700 ohm
RN12	24366102	CF, 1k ohm
RN13	24366103	CF, 10k ohm
RN14	24366102	CF, 1k ohm
RN17	24366103	CF, 10k ohm
RN21	24366102	CF, 1k ohm
RN22	24366163	CF, 16k ohm
RN23	24366103	CF, 10k ohm
RN24	24366622	CF, 6200 ohm
RN25	24366163	CF, 16k ohm
RN26	24366103	CF, 10k ohm
RN27	24366102	CF, 1k ohm
RN82	24366163	CF, 16k ohm
RN84	24366103	CF, 10k ohm
RN88	24366182	CF, 1800 ohm
RN91	24366823	CF, 82k ohm
RN92	24366823	CF, 82k ohm
RN93	24366102	CF, 1k ohm
RS01	24366104	CF, 100k ohm
RS02	24366133	CF, 13k ohm
RS03	24366104	CF, 100k ohm
RS04	24366133	CF, 13k ohm
RS05	24366472	CF, 4700 ohm
RS06	24366472	CF, 4700 ohm
RS08	24366133	CF, 13k ohm
RS10	24366133	CF, 13k ohm
RS11	24366102	CF, 1k ohm
RS12	24366102	CF, 1k ohm
RS14	24366133	CF, 13k ohm
RS16	24366133	CF, 13k ohm
RS26	24366103	CF, 10k ohm
RS27	24366103	CF, 10k ohm
RS30	24366562	CF, 5600 ohm
RS31	24366911	CF, 910 ohm
RS32	24366911	CF, 910 ohm
RS33	24366109	CF, 1 ohm
RS34	24366102	CF, 1k ohm
RS35	24366910	CF, 91 ohm
RS36	24366123	CF, 12k ohm
RS37	24366473	CF, 47k ohm
RS38	24366751	CF, 750 ohm
RS39	24366751	CF, 750 ohm
RS61	24366562	CF, 5600 ohm
RS62	24366562	CF, 5600 ohm
RV01	24360750	CF, 75 ohm, 1/8W
RV02	24360750	CF, 75 ohm, 1/8W
RV03	24366750	CF, 75 ohm
RV06	24360332	CF, 3300 ohm, 1/8W
RV07	24360750	CF, 75 ohm, 1/8W
RV11	24366101	CF, 100 ohm
RV12	24366911	CF, 910 ohm
RV13	24366391	CF, 390 ohm
RV14	24366201	CF, 200 ohm

Location No.	Part No.	Description
RV15	24366561	CF, 560 ohm
△ RV16	24000665	FR, 15 ohm, 1/4W
RV17	24366331	CF, 330 ohm
RV20	24366332	CF, 3300 ohm
RV21	24366103	CF, 10k ohm
RV22	24366332	CF, 3300 ohm
RV26	24366750	CF, 75 ohm
RV27	24366750	CF, 75 ohm
RV28	24366750	CF, 75 ohm
RV29	24366750	CF, 75 ohm
RV38	24366104	CF, 100k ohm
RV39	24366104	CF, 100k ohm
RV46	24366223	CF, 22k ohm
RV49	24366472	CF, 4700 ohm
△ RV60	24000665	FR, 15 ohm, 1/4W
RV61	24366272	CF, 2700 ohm
RV62	24366203	CF, 20k ohm
RV63	24366103	CF, 10k ohm
RV64	24366203	CF, 20k ohm
RV65	24366103	CF, 10k ohm
RV66	24366223	CF, 22k ohm
RV68	24366102	CF, 1k ohm
RV69	24366102	CF, 1k ohm
RV70	24366153	CF, 15k ohm
RV71	24366472	CF, 4700 ohm
RV72	24366681	CF, 680 ohm
RV73	24366681	CF, 680 ohm
RV74	24366102	CF, 1k ohm
RV75	24366102	CF, 1k ohm
RV76	24366272	CF, 2700 ohm
RV77	24366153	CF, 15k ohm
RV78	24366472	CF, 4700 ohm
RV79	24366681	CF, 680 ohm
RV91	24366272	CF, 2700 ohm
RV92	24366102	CF, 1k ohm
RV93	24366102	CF, 1k ohm
RV94	24366681	CF, 680 ohm
RV95	24366681	CF, 680 ohm
RV96	24366153	CF, 15k ohm
RV97	24366472	CF, 4700 ohm
RV98	24366681	CF, 680 ohm
RV99	24366153	CF, 15k ohm
RV100	24366472	CF, 4700 ohm
RV101	24366103	CF, 10k ohm
RV102	24366103	CF, 10k ohm
RV103	24366103	CF, 10k ohm
RV104	24366103	CF, 10k ohm
RV105	24366103	CF, 10k ohm
RV106	24366103	CF, 10k ohm
RV113	24366102	CF, 1k ohm
RV114	24366102	CF, 1k ohm
RV121	24366102	CF, 1k ohm
RX02	24366103	CF, 10k ohm
RX03	24366103	CF, 10k ohm
RX04	24366103	CF, 10k ohm
RX06	24366103	CF, 10k ohm
RX07	24366153	CF, 15k ohm
RX08	24366103	CF, 10k ohm
RX09	24366102	CF, 1k ohm
RX12	24366563	CF, 56k ohm
RX13	24366104	CF, 100k ohm
RX16	24552220	OMF, 22 ohm, 1/2W
RY01	24872152	Chip, 1500 ohm, 1/16W
RY03	24871122	Chip, 1.2k ohm, 1/8W

Location No.	Part No.	Description
RY04	24872162	Chip, 1600 ohm, 1/16W
RY05	24872162	Chip, 1600 ohm, 1/16W
RY06	24872223	Chip, 22k ohm, 1/16W
RY07	24872104	Chip, 100k ohm, 1/16W
RY08	24872103	Chip, 10k ohm, 1/16W
RY09	24872202	Chip, 2k ohm, 1/16W
RY10	24872562	Chip, 5600 ohm, 1/16W
RY11	24872272	Chip, 2700 ohm, 1/16W
RY12	24872202	Chip, 2k ohm, 1/16W
RY13	24872103	Chip, 10k ohm, 1/16W
RY14	24872223	Chip, 22k ohm, 1/16W
RY20	24872103	Chip, 10k ohm, 1/16W
RY21	24872203	Chip, 20k ohm, 1/16W
RY23	24872102	Chip, 1000 ohm, 1/16W
RY24	24872182	Chip, 1800 ohm, 1/16W
RY25	24872431	Chip, 430 ohm, 1/16W
RY26	24872105	Chip, 1M ohm, 1/16W
RY27	24872332	Chip, 3300 ohm, 1/16W
RY28	24872361	Chip, 360 ohm, 1/16W
RY29	24872431	Chip, 430 ohm, 1/16W
RY30	24872334	Chip, 330k ohm, 1/16W
RY31	24872123	Chip, 12k ohm, 1/16W
RY32	24872162	Chip, 1600 ohm, 1/16W
RY33	24872102	Chip, 1000 ohm, 1/16W
RY34	24872821	Chip, 820 ohm, 1/16W
RY35	24872103	Chip, 10k ohm, 1/16W
RY36	24872205	Chip, 2M ohm, 1/16W
RY37	24872684	Chip, 680k ohm, 1/16W
RY38	24872103	Chip, 10k ohm, 1/16W
RY39	24872103	Chip, 10k ohm, 1/16W
RY40	24872103	Chip, 10k ohm, 1/16W
RY41	24872103	Chip, 10k ohm, 1/16W
RY42	24872332	Chip, 3300 ohm, 1/16W
RY43	24872622	Chip, 6200 ohm, 1/16W
RY44	24872102	Chip, 1000 ohm, 1/16W
RY46	24872102	Chip, 1000 ohm, 1/16W
RY47	24872562	Chip, 5600 ohm, 1/16W
RY48	24872113	Chip, 11k ohm, 1/16W
RY50	24066875	VR, 20k ohm, 0.3W
RY51	24066600	VR, 10k ohm, 1/10W
RY52	24066600	VR, 10k ohm, 1/10W
RY53	24066600	VR, 10k ohm, 1/10W
RY60	24872512	Chip, 5100 ohm, 1/16W
RY61	24872512	Chip, 5100 ohm, 1/16W
RY62	24872202	Chip, 2k ohm, 1/16W
RY63	24872102	Chip, 1000 ohm, 1/16W
RY64	24872102	Chip, 1000 ohm, 1/16W
RY65	24871301	Chip, 300 ohm, 1/8W
RY66	24872202	Chip, 2k ohm, 1/16W
RY67	24872202	Chip, 2k ohm, 1/16W
RY68	24872202	Chip, 2k ohm, 1/16W
RY69	24872202	Chip, 2k ohm, 1/16W
RY70	24872202	Chip, 2k ohm, 1/16W
RY71	24872102	Chip, 1000 ohm, 1/16W
RY72	24872102	Chip, 1000 ohm, 1/16W
RY73	24872102	Chip, 1000 ohm, 1/16W
RY74	24872103	Chip, 10k ohm, 1/16W
RY75	24872912	Chip, 9100 ohm, 1/16W
RY76	24872912	Chip, 9100 ohm, 1/16W
RY77	24872912	Chip, 9100 ohm, 1/16W
RY78	24872912	Chip, 9100 ohm, 1/16W
RY79	24872912	Chip, 9100 ohm, 1/16W
RY80	24872242	Chip, 2400 ohm, 1/16W
RY81	24872242	Chip, 2400 ohm, 1/16W

Location No.	Part No.	Description
RY82	24872103	Chip, 10k ohm, 1/16W
RY83	24872103	Chip, 10k ohm, 1/16W
RY84	24872182	Chip, 1800 ohm, 1/16W
RY85	24871122	Chip, 1.2k ohm, 1/8W
RY88	24872332	Chip, 3300 ohm, 1/16W
RY89	24872822	Chip, 8200 ohm, 1/16W
RY90	24872202	Chip, 2k ohm, 1/16W
RY91	24872102	Chip, 1000 ohm, 1/16W
RY92	24872102	Chip, 1000 ohm, 1/16W
RY93	24872202	Chip, 2k ohm, 1/16W
RY94	24872202	Chip, 2k ohm, 1/16W
RY95	24872102	Chip, 1000 ohm, 1/16W
RY96	24872102	Chip, 1000 ohm, 1/16W
RY97	24872102	Chip, 1000 ohm, 1/16W
RY98	24871102	Chip, 1k ohm, 1/8W
RY99	24871102	Chip, 1k ohm, 1/8W
RY100	24871102	Chip, 1k ohm, 1/8W
RY101	24872162	Chip, 1600 ohm, 1/16W
RY102	24872101	Chip, 100 ohm, 1/16W
RY103	24872221	Chip, 220 ohm, 1/16W
RY104	24872221	Chip, 220 ohm, 1/16W
RY105	24872221	Chip, 220 ohm, 1/16W
RY106	24872560	Chip, 56 ohm, 1/16W
RY107	24872560	Chip, 56 ohm, 1/16W
RY108	24872560	Chip, 56 ohm, 1/16W
RY109	24872562	Chip, 5600 ohm, 1/16W
RY110	24872221	Chip, 220 ohm, 1/16W
RY111	24872561	Chip, 560 ohm, 1/16W
RY112	24872124	Chip, 120k ohm, 1/16W
RY113	24872102	Chip, 1000 ohm, 1/16W
RY114	24872101	Chip, 100 ohm, 1/16W
RY115	24872823	Chip, 82k ohm, 1/16W
RY116	24872104	Chip, 100k ohm, 1/16W
RY117	24872433	Chip, 43k ohm, 1/16W
RY118	24872512	Chip, 5100 ohm, 1/16W
RY119	24872153	Chip, 15k ohm, 1/16W
RY120	24872622	Chip, 6200 ohm, 1/16W
RY121	24872222	Chip, 2200 ohm, 1/16W
RY122	24872622	Chip, 6200 ohm, 1/16W
RY123	24872222	Chip, 2200 ohm, 1/16W
RY124	24872103	Chip, 10k ohm, 1/16W
RY125	24872102	Chip, 1000 ohm, 1/16W
RY126	24872153	Chip, 15k ohm, 1/16W
RY127	24872103	Chip, 10k ohm, 1/16W
△ RY130(U801)	24384510	OMF, 51 ohm, 3W
RY130(UY01)	24872102	Chip, 1000 ohm, 1/16W
RY131	24871102	Chip, 1k ohm, 1/8W
RY132	24872510	Chip, 51 ohm, 1/16W
RY133	24872623	Chip, 62k ohm, 1/16W
RY134	24872113	Chip, 11k ohm, 1/16W
RY135	24872153	Chip, 15k ohm, 1/16W
RY136	24872103	Chip, 10k ohm, 1/16W
RY137	24872302	Chip, 3k ohm, 1/16W
RY138	24872103	Chip, 10k ohm, 1/16W
RY139	24872162	Chip, 1600 ohm, 1/16W
RY140	24872752	Chip, 7500 ohm, 1/16W
RY141	24553240	OMF, 24 ohm, 1W
RY147	24366154	CF, 150k ohm
RY601	24366103	CF, 10k ohm
RY603	24366103	CF, 10k ohm
RY604	24366103	CF, 10k ohm
RY605	24366103	CF, 10k ohm
RY606	24366223	CF, 22k ohm
RY617	24366223	CF, 22k ohm

Location No.	Part No.	Description
RY618	24366912	CF, 9100 ohm
RY619	24366152	CF, 1500 ohm
RY620	24366102	CF, 1k ohm
RY621	24366112	CF, 1100 ohm
RY622	24366152	CF, 1500 ohm
RY623	24366152	CF, 1500 ohm
RZ12	24360222	CF, 2200 ohm, 1/8W
RZ17	24360681	CF, 680 ohm, 1/8W
RZ20	24360512	CF, 5100 ohm, 1/8W
RZ24	24360471	CF, 470 ohm, 1/8W
RZ25	24360102	CF, 1k ohm, 1/8W
RZ26	24360102	CF, 1k ohm, 1/8W
RZ28	24003043	MF, 820 ohm, 1/8W
RZ29	24360511	CF, 510 ohm, 1/8W
RZ31	24360123	CF, 12k ohm, 1/8W
RZ32	24360123	CF, 12k ohm, 1/8W
RZ33	24360471	CF, 470 ohm, 1/8W
RZ34	24360102	CF, 1k ohm, 1/8W
RZ39	24360102	CF, 1k ohm, 1/8W
RZ44	24003043	MF, 820 ohm, 1/8W
RZ45	24360223	CF, 22k ohm, 1/8W
RZ46	24360511	CF, 510 ohm, 1/8W
RZ47	24360682	CF, 6800 ohm, 1/8W
RZ48	24360513	CF, 51k ohm, 1/8W
RZ49	24360681	CF, 680 ohm, 1/8W
RZ52	24066878	VR, 2k ohm, 0.3W
RZ53	24066877	VR, 5k ohm, 0.3W
RZ54	24066878	VR, 2k ohm, 0.3W
RZ55	24066876	VR, 10k ohm, 0.3W
RZ56	24066878	VR, 2k ohm, 0.3W
RZ57	24066878	VR, 2k ohm, 0.3W
RZ58	24066878	VR, 2k ohm, 0.3W
RZ59	24066878	VR, 2k ohm, 0.3W
RZ60	24360301	CF, 300 ohm, 1/8W
RZ61	24360303	CF, 30k ohm, 1/8W
RZ62	24360102	CF, 1k ohm, 1/8W
RZ63	24360751	CF, 750 ohm, 1/8W
RZ66	24360222	CF, 2200 ohm, 1/8W
RZ67	24360222	CF, 2200 ohm, 1/8W
RZ68	24360102	CF, 1k ohm, 1/8W
RZ69	24360392	CF, 3900 ohm, 1/8W
RZ70	24360102	CF, 1k ohm, 1/8W
RZ71	24360102	CF, 1k ohm, 1/8W
RZ72	24360102	CF, 1k ohm, 1/8W
RZ73	24360202	CF, 2k ohm, 1/8W
RZ74	24360752	CF, 7500 ohm, 1/8W
RZ75	24360512	CF, 5100 ohm, 1/8W
RZ76	24360102	CF, 1k ohm, 1/8W
RZ77	24360332	CF, 3300 ohm, 1/8W
RZ78	24360223	CF, 22k ohm, 1/8W
RZ79	24360102	CF, 1k ohm, 1/8W
RZ80	24360102	CF, 1k ohm, 1/8W
RZ81	24360102	CF, 1k ohm, 1/8W
RZ82	24360102	CF, 1k ohm, 1/8W
RZ83	24360102	CF, 1k ohm, 1/8W
RZ84	24360102	CF, 1k ohm, 1/8W
RZ85	24360102	CF, 1k ohm, 1/8W
RZ86	24360102	CF, 1k ohm, 1/8W
RZ87	24360102	CF, 1k ohm, 1/8W
RZ88	24360102	CF, 1k ohm, 1/8W
RZ90	24360561	CF, 560 ohm, 1/8W
RZ91	24360751	CF, 750 ohm, 1/8W
RZ92	24003046	MF, 470 ohm, 1/8W
RZ93	24360561	CF, 560 ohm, 1/8W

Location No.	Part No.	Description
RZ94	24360751	CF, 750 ohm, 1/8W
RZ95	24003046	MF, 470 ohm, 1/8W
RZ96	24360561	CF, 560 ohm, 1/8W
RZ97	24360751	CF, 750 ohm, 1/8W
RZ98	24003046	MF, 470 ohm, 1/8W
RZ99	24360102	CF, 1k ohm, 1/8W
COILS & TRANSFORMERS		
L064	23238702	Coil, Peaking, TRF4101AJ
L065	23238905	Coil, Peaking, TRF4271AC
L074	23238702	Coil, Peaking, TRF4101AJ
L075	23238905	Coil, Peaking, TRF4271AC
L202	23238718	Coil, Peaking, TRF4479AJ
L241	23237979	Coil, Peaking, TRF4470AC
L260	23238718	Coil, Peaking, TRF4479AJ
L301	23103859	Coil (Ferrite Bead), TEM2011
L411	23103859	Coil (Ferrite Bead), TEM2011
L441	23233015	Coil, Linearity, TLN2131Y
L442	23221894	Coil, Choke, TLN3063
L448	23221064	Coil, Choke, TLN1015J
L449	23238714	Coil, Peaking, TRF4100AJ
△ L462	23227353	Deflection Yoke, TDY-6370T
L463	23233064	Coil, Width, TLN2110
L541	23238702	Coil, Peaking, TRF4101AJ
L702	23261974	Coil, Choke, HC5-035
L703	23237983	Coil, Peaking, TRF4220AC
L704	23103859	Coil (Ferrite Bead), TEM2011
L705	23103859	Coil (Ferrite Bead), TEM2011
L860	23103880	Coil (Ferrite Bead), TEM2011Y
L861	23103880	Coil (Ferrite Bead), TEM2011Y
L881	23103941	Coil (Ferrite Bead), TEM2000
L882	23103941	Coil (Ferrite Bead), TEM2000
L883	23103880	Coil (Ferrite Bead), TEM2011Y
L884	23103880	Coil (Ferrite Bead), TEM2011Y
L885	23103880	Coil (Ferrite Bead), TEM2011Y
L886	23103880	Coil (Ferrite Bead), TEM2011Y
L887	23103880	Coil (Ferrite Bead), TEM2011Y
L888	23103880	Coil (Ferrite Bead), TEM2011Y
L889	23221746	Coil, Choke, TLN3155D
L891	23261959	Coil, Choke, TRF9240
L892	23261959	Coil, Choke, TRF9240
L893	23261959	Coil, Choke, TRF9240
L894	23261959	Coil, Choke, TRF9240
△ L901	23200200	Coil, Degaussing, TSB-2321BT
L902	23237975	Coil, Peaking, TRF4101AC
L903	23237975	Coil, Peaking, TRF4101AC
L904	23237975	Coil, Peaking, TRF4101AC
L905	23237983	Coil, Peaking, TRF4220AC
L906	23237983	Coil, Peaking, TRF4220AC
L907	23237983	Coil, Peaking, TRF4220AC
L930	23238714	Coil, Peaking, TRF4100AJ
LA02	23262667	Coil, IF, TRF1161D
LA54	23238562	Coil, Peaking, TRF4109AJ
LA66	23238934	Coil, Peaking, TRF4109AC

Location No.	Part No.	Description
LC01	23103859	Coil (Ferrite Bead), TEM2011
LC02	23238562	Coil, Peaking, TRF4109AJ
LD02	23221686	Coil, Choke, TLN3197D
LD03	23103880	Coil (Ferrite Bead), TEM2011Y
LV01	23237987	Coil, Peaking, TRF4100AC
LV02	23237975	Coil, Peaking, TRF4101AC
LV03	23238705	Coil, Peaking, TRF4560AJ
LV04	23238705	Coil, Peaking, TRF4560AJ
LY02	23238727	Coil, Peaking, TRF4332AI
LY03	23237805	Coil, Peaking, TRF4222AC
LY04	23238711	Coil, Peaking, TRF4180AJ
LY05	23238509	Coil, Peaking, TRF4151AJ
LY06	23237995	Coil, Peaking, TRF4229AC
LY07	23238510	Coil, Peaking, TRF4181AJ
LY08	23238510	Coil, Peaking, TRF4181AJ
LY10	23238506	Coil, Peaking, TRF4229AJ
LY11	23238506	Coil, Peaking, TRF4229AJ
LY12	23238506	Coil, Peaking, TRF4229AJ
LY13	23238702	Coil, Peaking, TRF4101AJ
LY14	23238702	Coil, Peaking, TRF4101AJ
LY15	23250853	Coil, Delay Line, TRF2088
LY16	23238506	Coil, Peaking, TRF4229AJ
LY17	23103866	Coil (Ferrite Bead), TEM2015T
LY20	23238509	Coil, Peaking, TRF4151AJ
LY30	23103866	Coil (Ferrite Bead), TEM2015T
LZ02	23261996	Coil, Choke, TRF9213
LZ16	23238562	Coil, Peaking, TRF4109AJ
LZ17	23238562	Coil, Peaking, TRF4109AJ
LZ18	23238707	Coil, Peaking, TRF4390AJ
LZ19	23238710	Coil, Peaking, TRF4220AJ
LZ20	23238707	Coil, Peaking, TRF4390AJ
LZ21	23238710	Coil, Peaking, TRF4220AJ
LZ22	23238717	Coil, Peaking, TRF4569AJ
LZ23	23238717	Coil, Peaking, TRF4569AJ
LZ24	23238711	Coil, Peaking, TRF4180AJ
LZ25	23238711	Coil, Peaking, TRF4180AJ
LZ26	23238711	Coil, Peaking, TRF4180AJ
T401	23224972	Transformer, Horiz. Drive, TLN1052
△ T461	23236122	Transformer, Flyback, TFB5057AD
△ T462	23224935	Transformer, Pulse, TLN2143
△ T463	23224947	Transformer, Focus, TLN2150
△ T801	23211003	Line Filter, TRF3174
△ T802	23211003	Line Filter, TRF3174
T862	23217116	Transformer, Converter, TPW3211AD
TS01	23217034	Transformer, Power, TPW1484AS
SEMICONDUCTORS		
IC181	A6883056	IC, TPD3004K
IC301	23119142	IC, AN5521
IC482	B0350510	IC, TA75558S
IC483	B0372960	IC, TA78L009AP
IC501	B0383693	IC, TA8745DN
IC610	B0376887	IC, TA8218H
IC801	23319619	IC, STR-S6501
IC840	23318299	IC, L78MR05-FA

Location No.	Part No.	Description
ICA01	23319163	IC, TMP47C1638NU
ICA02	23318862	IC, M6M80021L
ICC01	B0377503	IC, TA8188N
ICC03	23318619	IC, YM7128
ICC04	B0350602	IC, TA75559P FA-1
ICC05	B0527256	IC, TMP42C60P-50
ICC80	B0372560	IC, TA78L005AP
ICG01	23318466	IC, CXA1124AS
ICN01	B0350000	IC, TA75458P
ICN06	B0384095	IC, TA8792N
ICN16	B0372960	IC, TA78L009AP
ICN20	B0347500	IC, TA75358P
ICS30	B0320584	IC, TA7280P
ICV01	B0383720	IC, TA8747N
ICV07	23319002	IC, LVA521S
ICV101	B0487098	IC, TC74HC4094AP
ICX01	B0100117	IC, TB1203AP
ICY01(U801)	23319203	IC, MC7812CT
ICY01(UY01)	B0383950	IC, TA8779F
ICY02(U801)	23319199	IC, MC7805CT
ICY02(UY01)	23319438	IC, μ PC661G
ICY03	23319307	IC, μ PD42272AGF
ICY04	B0402108	IC, TMP42C40P-10
ICY05	23318409	IC, AN5352N
ICY135	23319202	IC, MC7809CT
ICY601	23319002	IC, LVA521S
ICY602	23319125	IC, LVA523SA
ICY603	23319125	IC, LVA523SA
ICZ01	B0383735	IC, TA8748AN
ICZ02	B0383740	IC, TA8749S
ICZ08	B0372560	IC, TA78L005AP
ICZ22	B0589780	IC, TL8813P
ICZ23	B0589780	IC, TL8813P
Q043	A6534040	Transistor, 2SA1015-Y
Q083	A6534040	Transistor, 2SA1015-Y
Q202	A6317440	Transistor, 2SC1815N-Y
Q203	A6534040	Transistor, 2SA1015-Y
Q204	A6002040	Transistor, RN1204
Q205	A6534040	Transistor, 2SA1015-Y
Q208	A6002040	Transistor, RN1204
Q210	A6002040	Transistor, RN1204
Q212	A6064950	Transistor, 2SK982
Q213	A6002040	Transistor, RN1204
Q214	A6002040	Transistor, RN1204
Q221	A6002060	Transistor, RN1206
Q230	A6335477	Transistor, 2SC2712-Y
Q241	A6317440	Transistor, 2SC1815N-Y
Q402	A678971D	Transistor, 2SC1569 FA-5
Q403	A6324961	Transistor, 2SC2229-Y
△ Q404	A6365232	Transistor, 2SC3892A
Q405	A6317440	Transistor, 2SC1815N-Y
Q406	A6534040	Transistor, 2SA1015-Y
Q421	A6317440	Transistor, 2SC1815N-Y
Q480	A6867051	Transistor, 2SD1294
Q481	A6324961	Transistor, 2SC2229-Y
Q484	A6534040	Transistor, 2SA1015-Y
Q486	A6317440	Transistor, 2SC1815N-Y
Q502	A6002050	Transistor, RN1205
Q701	23114528	Transistor, 2SC1740S-Q
Q704	A6734590	Transistor, 2SC752(G)TM-Y
Q705	23114528	Transistor, 2SC1740S-Q
Q706	23114528	Transistor, 2SC1740S-Q
Q707	A6734590	Transistor, 2SC752(G)TM-Y
Q709	23114528	Transistor, 2SC1740S-Q

Location No.	Part No.	Description
Q710	23114530	Transistor, 2SA933S-Q
Q711	A6546665	Transistor, 2SA1306-Y
Q712	A6359135	Transistor, 2SC3298A-Y
Q715	A6002030	Transistor, RN1203
△ Q841	A8643135	Photo Coupler, TLP621(GRL)
△ Q845	A6907752	Transistor, S1854 FA-1
Q862	A6317440	Transistor, 2SC1815N-Y
Q863	A6317440	Transistor, 2SC1815N-Y
Q870	A6532853	Transistor, 2SA949-Y(C)
Q902	23114528	Transistor, 2SC1740S-Q
Q903	23114528	Transistor, 2SC1740S-Q
Q904	23114528	Transistor, 2SC1740S-Q
Q908	A6319400	Transistor, 2SC2068
Q909	A6319400	Transistor, 2SC2068
Q910	A6319400	Transistor, 2SC2068
Q913	A6509140	Transistor, 2SA562TMY
Q914	A6534040	Transistor, 2SA1015-Y
Q926	A6002040	Transistor, RN1204
Q928	A6064950	Transistor, 2SK982
Q929	A6064950	Transistor, 2SK982
QA37	A6317440	Transistor, 2SC1815N-Y
QA38	A6002010	Transistor, RN1201
QA42	A6317440	Transistor, 2SC1815N-Y
QA43	A6534040	Transistor, 2SA1015-Y
QA44	A6317460	Transistor, 2SC1815N-GR
QA47	A6317440	Transistor, 2SC1815N-Y
QA48	A6534040	Transistor, 2SA1015-Y
QA49	A6317440	Transistor, 2SC1815N-Y
QA50	A6317440	Transistor, 2SC1815N-Y
QA60	A6534040	Transistor, 2SA1015-Y
QA61	A6317440	Transistor, 2SC1815N-Y
QB01	A6534040	Transistor, 2SA1015-Y
QB42	A6317440	Transistor, 2SC1815N-Y
QB47	A6317440	Transistor, 2SC1815N-Y
QB48	A6534040	Transistor, 2SA1015-Y
QC52	A6317440	Transistor, 2SC1815N-Y
QC53	A6012030	Transistor, RN2203
QD01	A6625365	Transistor, 2SB688-O(BS)
QD02	23114528	Transistor, 2SC1740S-Q
QD03	23114530	Transistor, 2SA933S-Q
QE06	A6317440	Transistor, 2SC1815N-Y
QG60	A6317440	Transistor, 2SC1815N-Y
QG61	A6317440	Transistor, 2SC1815N-Y
QG62	A6317440	Transistor, 2SC1815N-Y
QG90	A6002040	Transistor, RN1204
QG91	A6010030	Transistor, RN2003
QN13	A6342200	Transistor, 2SC2878-A
QN14	A6342200	Transistor, 2SC2878-A
QS31	A6342210	Transistor, 2SC2878-B
QS60	A6317440	Transistor, 2SC1815N-Y
QS61	A6317440	Transistor, 2SC1815N-Y
QV04	A6317440	Transistor, 2SC1815N-Y
QV05	A6534040	Transistor, 2SA1015-Y
QV06	A6534040	Transistor, 2SA1015-Y
QV09	A6534040	Transistor, 2SA1015-Y
QV12	A6317440	Transistor, 2SC1815N-Y
QV60	A6317440	Transistor, 2SC1815N-Y
QV70	A6317440	Transistor, 2SC1815N-Y
QV71	A6317440	Transistor, 2SC1815N-Y
QV72	A6534040	Transistor, 2SA1015-Y
QV73	A6534040	Transistor, 2SA1015-Y
QV91	A6534040	Transistor, 2SA1015-Y
QV92	A6534040	Transistor, 2SA1015-Y

Location No.	Part No.	Description
QV93	A6317440	Transistor, 2SC1815N-Y
QV94	A6317440	Transistor, 2SC1815N-Y
QX03	A6002030	Transistor, RN1203
QY10	A6541137	Transistor, 2SA1162-Y
QY11	A6335477	Transistor, 2SC2712-Y
QY12	A6335477	Transistor, 2SC2712-Y
QY13	A6335477	Transistor, 2SC2712-Y
QY14	A6004020	Transistor, RN1402
QY17	A6541137	Transistor, 2SA1162-Y
QY18	A6541137	Transistor, 2SA1162-Y
QY19	A6335477	Transistor, 2SC2712-Y
QY20	A6335477	Transistor, 2SC2712-Y
QY21	A6335477	Transistor, 2SC2712-Y
QY22	A6335477	Transistor, 2SC2712-Y
QY23	A6541137	Transistor, 2SA1162-Y
QY24	A6734590	Transistor, 2SC752(G)TM-Y
QY25	A6541137	Transistor, 2SA1162-Y
QY26	A6541137	Transistor, 2SA1162-Y
QY27	A6541137	Transistor, 2SA1162-Y
QY28	A6335477	Transistor, 2SC2712-Y
QY29	A6541137	Transistor, 2SA1162-Y
QY30	A6335477	Transistor, 2SC2712-Y
QY31	A6335477	Transistor, 2SC2712-Y
QY32	A6335477	Transistor, 2SC2712-Y
QY33	A6541137	Transistor, 2SA1162-Y
QY34	A6335477	Transistor, 2SC2712-Y
QY606	A6317440	Transistor, 2SC1815N-Y
QY607	A6534040	Transistor, 2SA1015-Y
QY608	A6317440	Transistor, 2SC1815N-Y
QZ11	A6317440	Transistor, 2SC1815N-Y
QZ12	A6317440	Transistor, 2SC1815N-Y
QZ15	A6534040	Transistor, 2SA1015-Y
QZ16	A6534040	Transistor, 2SA1015-Y
QZ17	A6534040	Transistor, 2SA1015-Y
QZ18	A6534040	Transistor, 2SA1015-Y
QZ19	A6317440	Transistor, 2SC1815N-Y
QZ20	A6317440	Transistor, 2SC1815N-Y
QZ21	A6317440	Transistor, 2SC1815N-Y
QZ26	A6534040	Transistor, 2SA1015-Y
QZ27	A6534040	Transistor, 2SA1015-Y
QZ28	A6317440	Transistor, 2SC1815N-Y
QZ29	A6317440	Transistor, 2SC1815N-Y
QZ30	A6317440	Transistor, 2SC1815N-Y
QZ31	A6534040	Transistor, 2SA1015-Y
D181	A7150258	Diode, 1SS176
D201	A7150258	Diode, 1SS176
D202	A7150258	Diode, 1SS176
D203	A7150258	Diode, 1SS176
D204	A7150258	Diode, 1SS176
D205	A7150258	Diode, 1SS176
D206	A7150258	Diode, 1SS176
D216	A7117415	Diode, Zener, 04AZ15Y
D218	A7117415	Diode, Zener, 04AZ15Y
D219	A7117415	Diode, Zener, 04AZ15Y
D220	A7117415	Diode, Zener, 04AZ15Y
D224	A7150258	Diode, 1SS176
D230	A7150258	Diode, 1SS176
D231	A7150258	Diode, 1SS176
D233	A7117415	Diode, Zener, 04AZ15Y
D238	A7117415	Diode, Zener, 04AZ15Y
D240	A7150258	Diode, 1SS176
D243	A7150258	Diode, 1SS176
D244	A7150258	Diode, 1SS176
D260	A7116505	Diode, Zener, 04AZ6.2X

Location No.	Part No.	Description
D261	A7150258	Diode, 1SS176
D265	A7117415	Diode, Zener, 04AZ15Y
D270	A7116205	Diode, Zener, 04AZ4.7X
D271	A7150258	Diode, 1SS176
D280	A7150258	Diode, 1SS176
D287	A7150258	Diode, 1SS176
D301	23118094	Diode, EU2A
D302	A7568250	Diode, 1S1834
D331	A7150258	Diode, 1SS176
D332	24000255	Diode, SC570A
D340	A7150258	Diode, 1SS176
D370	A7150258	Diode, 1SS176
D403	A7116925	Diode, Zener, 04AZ9.1Z
D405	A7150258	Diode, 1SS176
D406	A7978850	Diode, S5295G
D408	A7580658	Diode, 3JH41
D409	A7150258	Diode, 1SS176
D410	A7150258	Diode, 1SS176
D441	23316250	Diode, ERD08M-15
D442	23316250	Diode, ERD08M-15
D480	A7568752	Diode, 1S1887A
D481	A7116225	Diode, Zener, 04AZ4.7Z
D482	A7978850	Diode, S5295G
D483	A7150258	Diode, 1SS176
△ D484	23115774	Diode, Zener, RD6.2E(4)
D485	A7150258	Diode, 1SS176
D516	A7150258	Diode, 1SS176
D601	A7150258	Diode, 1SS176
D602	A7150258	Diode, 1SS176
D605	A7150258	Diode, 1SS176
D606	A7150258	Diode, 1SS176
D607	A7117015	Diode, Zener, 04AZ10Y
D608	A7150258	Diode, 1SS176
D609	A7150258	Diode, 1SS176
D704	A7150258	Diode, 1SS176
D705	A7150258	Diode, 1SS176
D706	A7568475	Diode, TVR-2D
D707	A7568475	Diode, TVR-2D
△ D801	23316275	Diode, RBV606 LF-A
D830	23118450	Diode, RM4
D831	23118450	Diode, RM4
D832	23118450	Diode, RM4
D833	23118450	Diode, RM4
D840	23115532	Diode, ERB12-01RK
D841	23115532	Diode, ERB12-01RK
D842	23115532	Diode, ERB12-01RK
D843	23115532	Diode, ERB12-01RK
D844	A7150258	Diode, 1SS176
D845	A7150351	Diode, 1SS178
D846	A7116315	Diode, Zener, 04AZ5.1Y
D847	23115532	Diode, ERB12-01RK
D862	A7801166	SCR, SF0R3G42-IG5
D863	A7568752	Diode, 1S1887A
D864	23118060	Diode, AL01Z
D865	23118060	Diode, AL01Z
D870	A7118305	Diode, Zener, 04AZ36X
D878	A7118305	Diode, Zener, 04AZ36X
D879	A7150351	Diode, 1SS178
D883	23316406	Diode, FML-G16S
D884	23316184	Diode, FML-G12S
D885	23316184	Diode, FML-G12S
D888	23118339	Diode, Zener, R2M
D920	A7116105	Diode, Zener, 04AZ4.3X
D921	A7150258	Diode, 1SS176

Location No.	Part No.	Description
DA07	A7116515	Diode, Zener, 04AZ6.2Y
DA08	A7150258	Diode, 1SS176
DA44	A7116515	Diode, Zener, 04AZ6.2Y
DA49	A7150258	Diode, 1SS176
DA50	A7150258	Diode, 1SS176
DA51	A7150258	Diode, 1SS176
DA52	A7150258	Diode, 1SS176
DA53	A7150258	Diode, 1SS176
DA54	A7116515	Diode, Zener, 04AZ6.2Y
DA55	A7150258	Diode, 1SS176
DA56	A7150258	Diode, 1SS176
DA60	23316411	Diode, Zener, HZT33-12
DA61	A7150258	Diode, 1SS176
DA62	A7150258	Diode, 1SS176
DA63	A7150258	Diode, 1SS176
DA64	A7150258	Diode, 1SS176
DA65	A7116705	Diode, Zener, 04AZ7.5X
DA67	A7150258	Diode, 1SS176
DB40	A7150258	Diode, 1SS176
DC01	A7150258	Diode, 1SS176
DC02	A7116515	Diode, Zener, 04AZ6.2Y
DC04	A7116515	Diode, Zener, 04AZ6.2Y
DC50	A8612101	Diode (LED), TLO153, Orange
DD01	A7568460	Diode, TVR-1B
DD02	23118943	Diode, ERC20-04
DD03	A7568752	Diode, 1S1887A
DD04	A7150258	Diode, 1SS176
DE50	A8608781	Diode (LED), TLY153, Yellow
DG50	A8606431	Diode (LED), TGL153, Green
DG51	A8612101	Diode (LED), TLO153, Orange
DG90	A7150258	Diode, 1SS176
DG91	A7150258	Diode, 1SS176
DN08	A7115415	Diode, Zener, 04AZ2.2-Z
DS51	A8608781	Diode (LED), TLY153, Yellow
DV01	A7117015	Diode, Zener, 04AZ10Y
DV03	A7117015	Diode, Zener, 04AZ10Y
DV05	A7117015	Diode, Zener, 04AZ10Y
DV07	A7117015	Diode, Zener, 04AZ10Y
DV13	A7117015	Diode, Zener, 04AZ10Y
DV15	A7117015	Diode, Zener, 04AZ10Y
DV17	A7117015	Diode, Zener, 04AZ10Y
DV23	A7117015	Diode, Zener, 04AZ10Y
DV25	A7117015	Diode, Zener, 04AZ10Y
DV30	A7150258	Diode, 1SS176
DV60	A7150258	Diode, 1SS176
DV70	A7116925	Diode, Zener, 04AZ9.1Z
DX01	A7116515	Diode, Zener, 04AZ6.2Y
DY01	A7151100	Diode, 1SS193
DY04	A7151100	Diode, 1SS193
DY05	A7154600	Diode, 1SS319
DY06	A7154600	Diode, 1SS319
DY09	A7151100	Diode, 1SS193
DY13	A7151100	Diode, 1SS193
DY14	A7151100	Diode, 1SS193
DY20	A7152776	Diode, 1SS226-CN(TR)
DY30	23118282	Diode, Zener, RD15MB1
DY31	23118282	Diode, Zener, RD15MB1
DY32	23118282	Diode, Zener, RD15MB1
DY601	A7150258	Diode, 1SS176

Location No.	Part No.	Description
DY602	A7116925	Diode, Zener, 04AZ9.1Z
DY603	A7116925	Diode, Zener, 04AZ9.1Z
DY604	A7116925	Diode, Zener, 04AZ9.1Z
DY605	A7150258	Diode, 1SS176
DZ02	A7150258	Diode, 1SS176
MISCELLANEOUS		
△ F801	23144807	Fuse, 5.0A
F801A	23165102	Fuse Holder
△ F803	23144807	Fuse, 5.0A
F803A	23165102	Fuse Holder
△ F883	23144842	Fuse, 5.0A
△ F884	23144849	Fuse, 2.0A
F884A	23165102	Fuse Holder
H002	23148749	TV PLL PIF/SIF Module, MVUS11
△ H003	23344284	RF Switch, RSU131X2
H003A	23740989	Nut
HY04	23148959	PIF/SIF Module, VNTS11U-01
K910	23120593	Remote Sensor, IR-9101-D
P003	23161571	Terminal, 4P
P100	23902649	Socket, 9P
P101	23902650	Socket, 13P
P102	23367721	Connector, 9P
P103	23367722	Connector, 13P
P601	23164560	Plug, 6P
P602	23164559	Plug, 7P
P606	23164559	Plug, 7P
P661	23363607	Headphone Jack, 3.5mm
△ P801	23176870	Power Cord
P910	23164725	Plug, 2P
PA08A	23164563	Plug, 3P
PA08B	23164563	Plug, 3P
PD06	23164722	Plug, 5P
PG01	23902238	Connector, Socket, 12P
PG01A	23368188	Connector, Plug, 12P
PG03	23164550	Plug, 3P
PG04	23164560	Plug, 6P
PN05	23902238	Connector, Socket, 12P
PN05A	23368188	Connector, Plug, 12P
PN06	23164560	Plug, 6P
PS03	23164784	Plug, 4P
PS40	23365374	Jack, 1S3P
PS41	23365374	Jack, 1S3P
PV01	23164556	Plug, 10P
PV10	23365599	Jack, 1C6P
PV12	23164550	Plug, 3P
PV13	23164563	Plug, 3P
PV40	23365374	Jack, 1S3P
PV41	23365374	Jack, 1S3P
PV60	23365611	Jack, 5P
PV60	23164556	Plug, 10P
PY01	23902238	Connector, Socket, 12P
PY01A	23368188	Connector, Plug, 12P
PY02	23902238	Connector, Socket, 12P
PY02A	23368188	Connector, Plug, 12P
PY04	23164563	Plug, 3P
PZ01	23902239	Connector, 7P
PZ01A	23368189	Connector, 7P
S201	23145542	Switch, Lever, 1C3P
S301	23145395	Switch, Slide, 1C3P
S601	23145356	Switch, Slide, 4C2P
SA04	23145580	Switch, Push

Location No.	Part No.	Description
SA05	23145580	Switch, Push
SA06	23145580	Switch, Push
SA07	23145580	Switch, Push
SA08	23344111	Switch, Push, 1C1P
SA09	23145580	Switch, Push
SA10	23145580	Switch, Push
SA11	23145580	Switch, Push
SA12	23145580	Switch, Push
SA13	23145580	Switch, Push
△ SR81	23146916	Power Relay, DG1U-12
△ V901A	23902068	Socket, CRT, 20P
W660	23351008	Speaker, SPK-1283, 160x160mm, 4 ohm
W661	23351009	Speaker, SPK-1284, 120x120mm, 8 ohm
W662	23351009	Speaker, SPK-1284, 120x120mm, 8 ohm
X201	23250876	Coil, Delay Line, TRF2081
X401	23153721	Ceramic Resonator, 503kHz, TCR1023
X501	23153961	Crystal, 3.58MHz
XA01	23153011	Ceramic Resonator, TCR1050
XA02	23153860	Crystal, 32.768kHz
XC01	23153989	Ceramic Resonator, TCR1053
XC02	23153767	Ceramic Resonator, TCR1045
XY01	23153886	Ceramic Resonator, 503kHz, TCR1012
XY02	23153961	Crystal, 3.58MHz
XY03	23153767	Ceramic Resonator, TCR1045
XZ02	23107486	Filter, TLC1152T
XZ03	23250866	Delay Line, TRF2096
XZ05	23107646	Filter, TLC1154
XZ06	23107648	Filter, TLC1156
ZY01	23107714	Filter, TEM1014T
ZY02	24000436	Resistor Block, 1k ohm, 1/32W
ZY03	24000436	Resistor Block, 1k ohm, 1/32W
ZY04	24000436	Resistor Block, 1k ohm, 1/32W
ZY05	23262682	Coil, IF, TRF1147T
ZY06	23262674	Coil, IF, TRF1164D
ZY07	23107664	Filter, TEM1007T
ZZ02	23107485	Filter, TCF1063

PC BOARD ASSEMBLIES

U002	23338525	A/V Board, PB1798-1
U003	23338526	CRT Drive Board, PB1798-2
U004	23338527	MTS Board, PB1798-3
U005	23338528	V.M Board, PB1798-4
U006	23338529	LED Board, PB1800-1
U008	23338530	Control Board, PB1800-2
U401	23338305	VHR & DQF Board, PB1666
U801	23338468	Power Board, PB1797
U902	23338467	Main Board, PB1795
UY01	23338307	PIP Board, PB1668
UZ01	23338323	D-CCD Board, PB1672

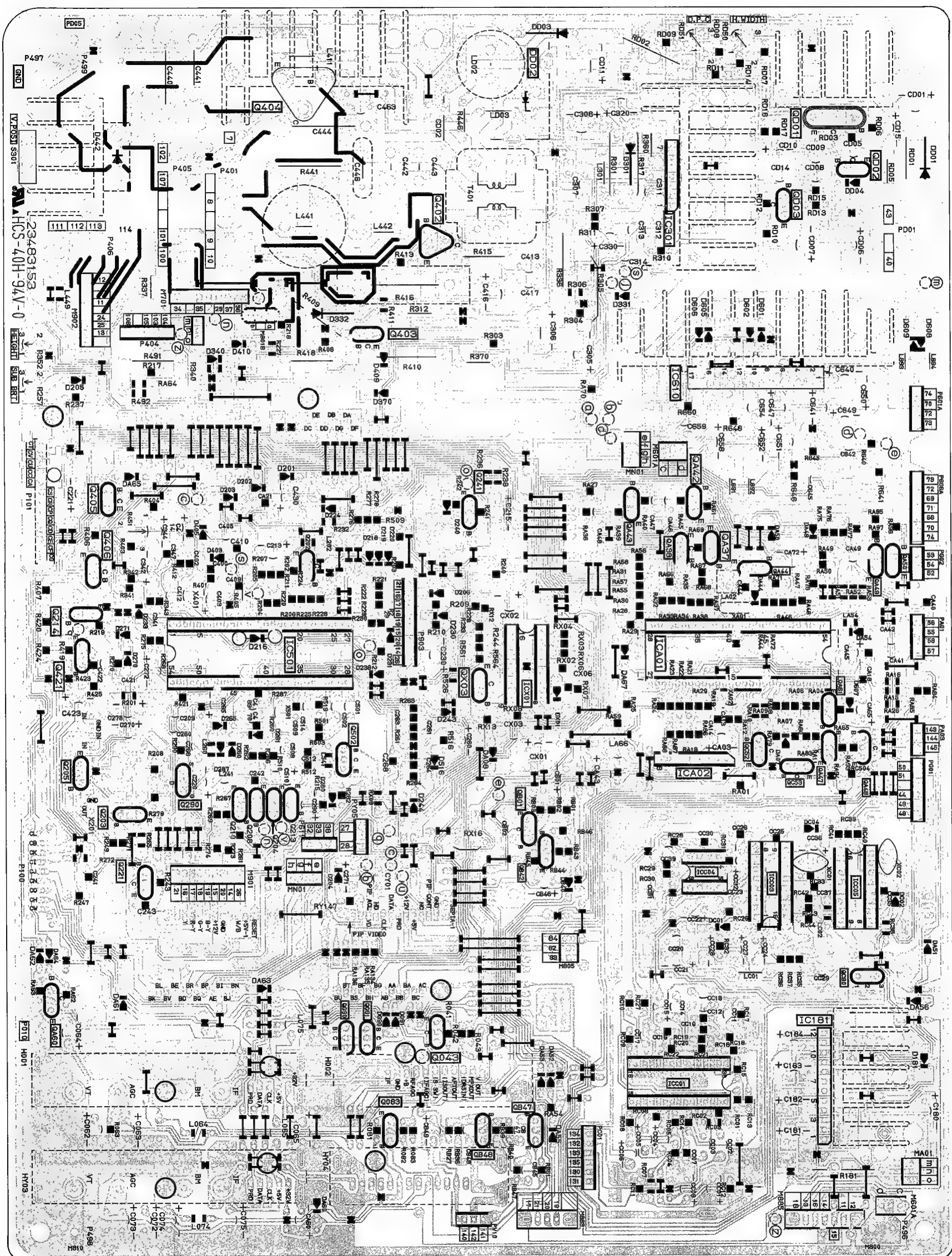
PICTURE TUBE

△ V901	23312052	Picture Tube, A89KPP90X(V)
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Location No.	Part No.	Description
TUNER		
△ H001	23121660	Tuner, VHF/UHF, EL815L1
△ HY03	23121661	Tuner, VHF/UHF, EL815L

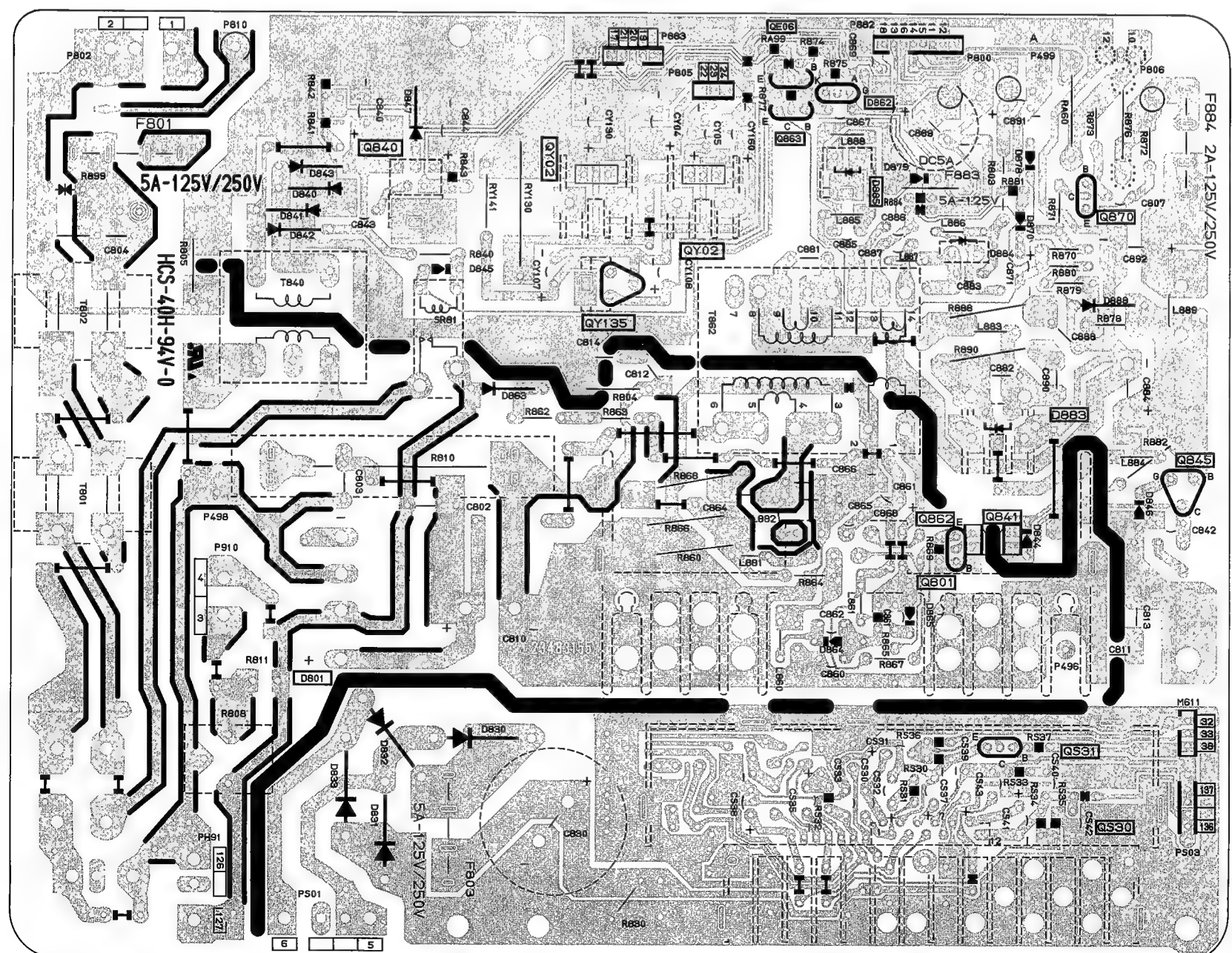
Location No.	Part No.	Description

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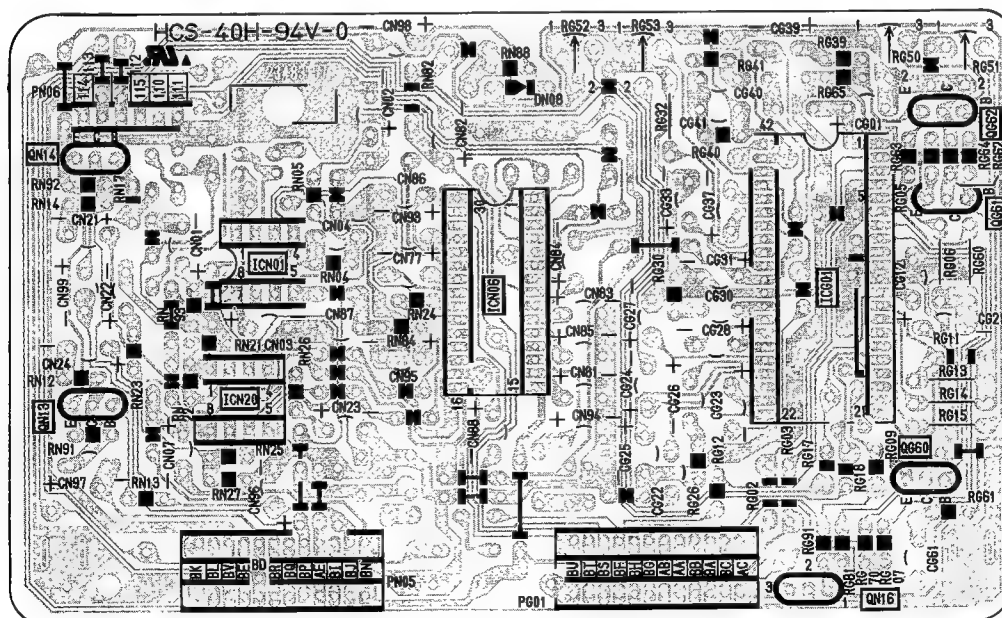


MAIN BOARD PB1795
BOTTOM (FOIL) SIDE

POWER BOARD PB1797
BOTTOM (FOIL) SIDE

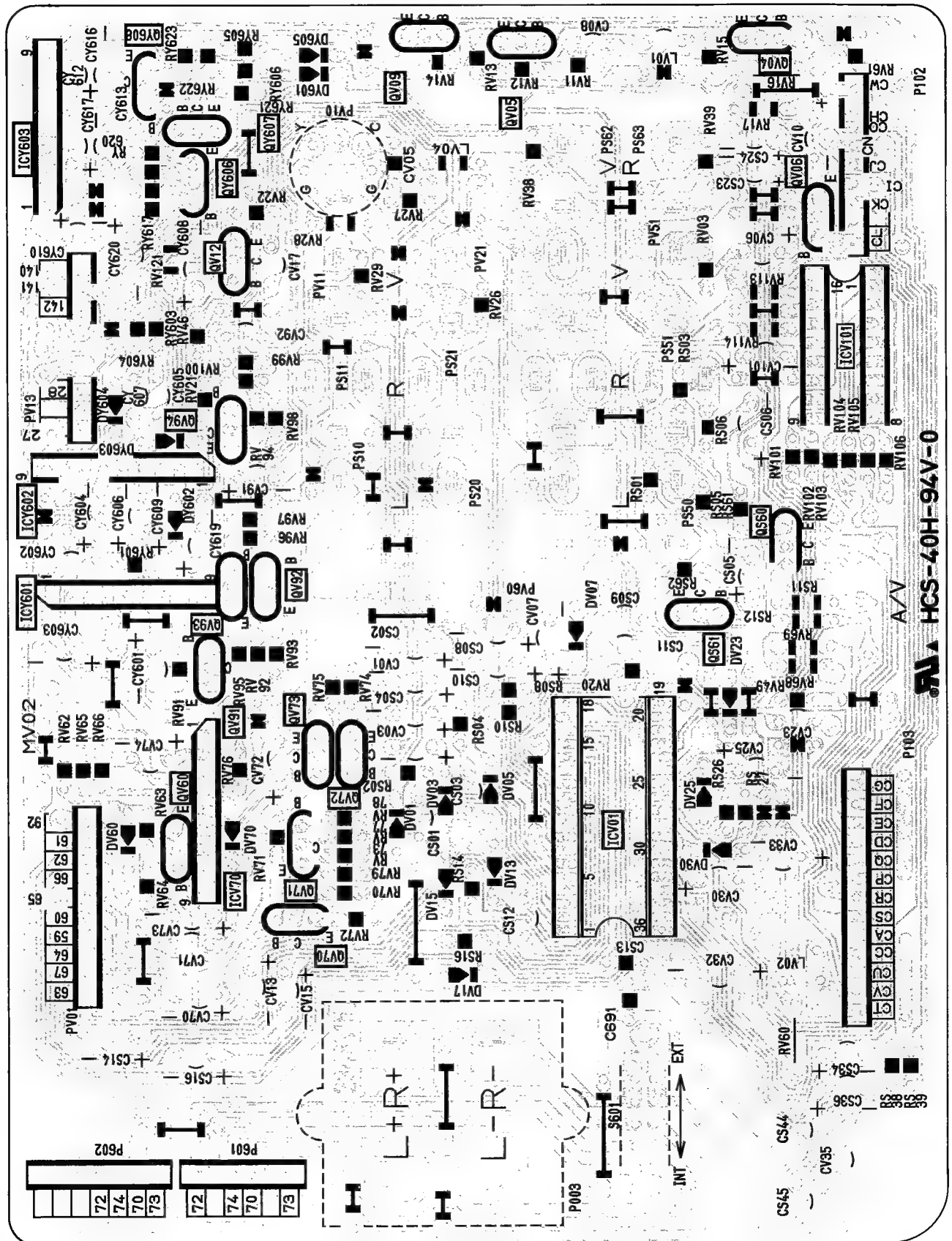


BOTTOM (FOIL) SIDE



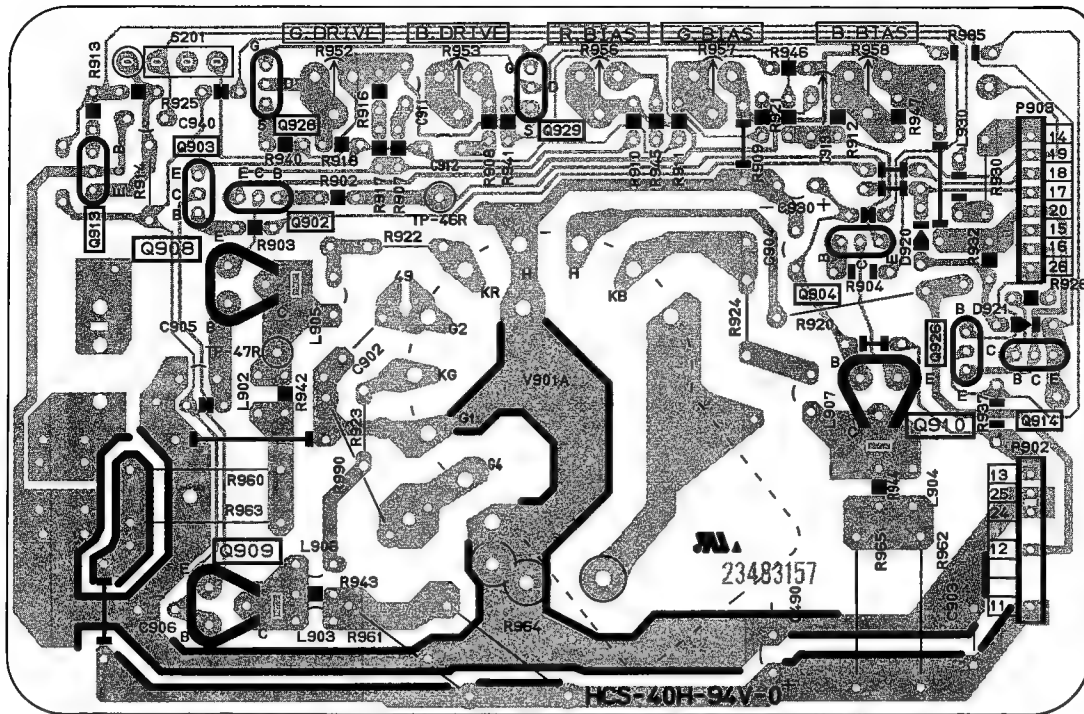
AV BOARD PB1798-1

BOTTOM (FOIL) SIDE



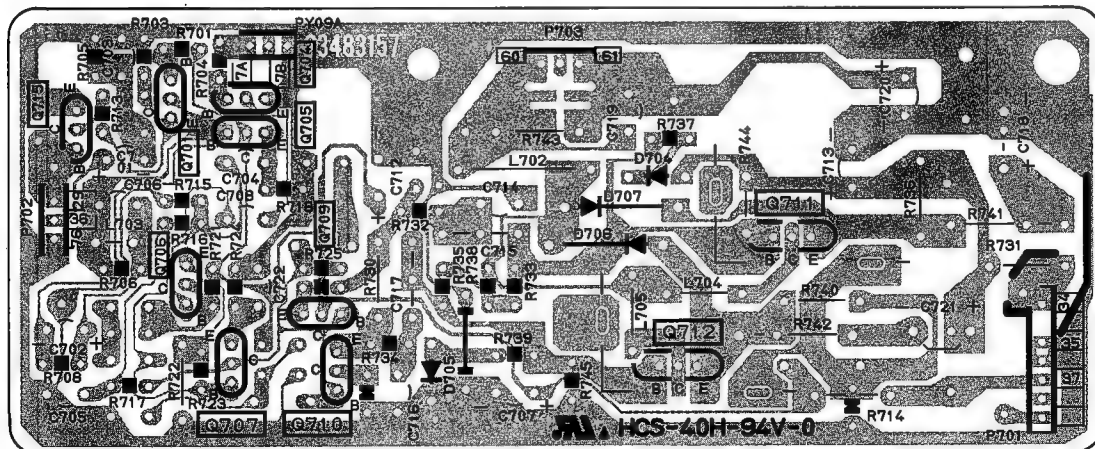
CRT DRIVE BOARD PB1798-2

BOTTOM (FOIL) SIDE



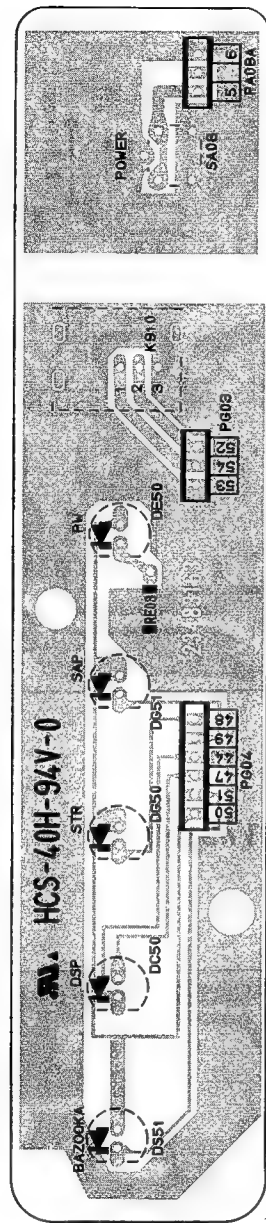
VELOCITY MOD. BOARD PB1798-4

BOTTOM (FOIL) SIDE



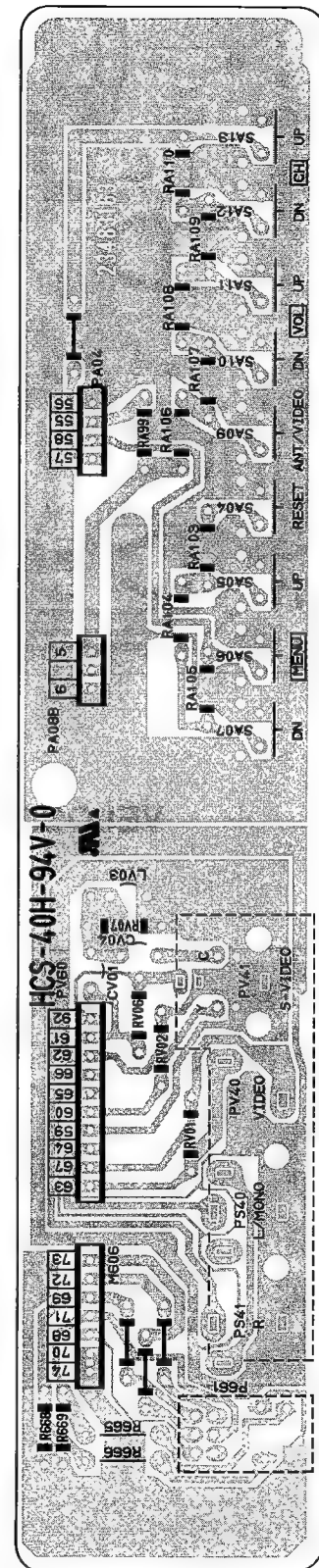
LED BOARD PB1800-1

BOTTOM (FOIL) SIDE



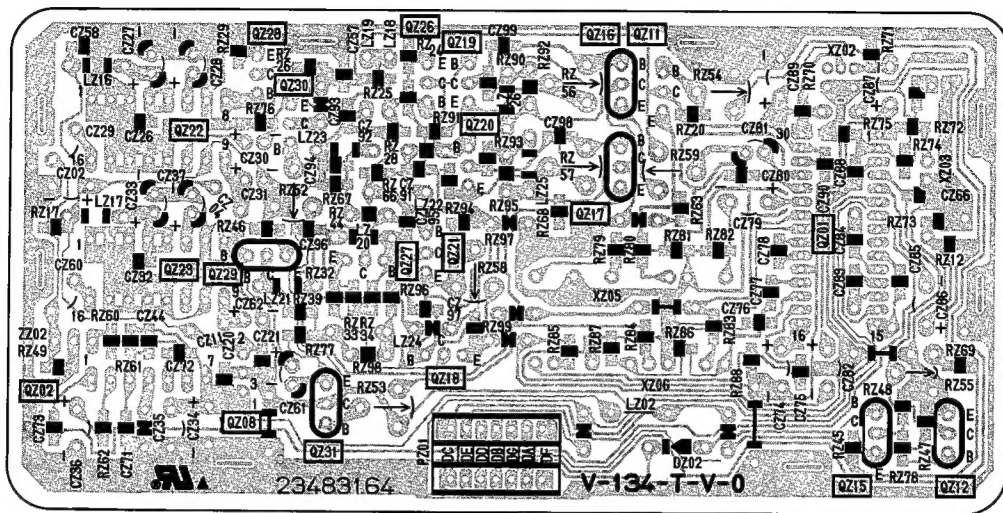
CONTROL BOARD PB1800-2

BOTTOM (FOIL) SIDE



D-CCD BOARD PB1672

BOTTOM (FOIL) SIDE



TERMINAL VIEW OF TRANSISTORS

① 2SD880



② 2SC2229
2SC2482
2SA1020
2SC752GTM
2SA1321



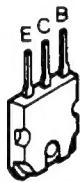
③ 2SA1015
2SC388ATM
2SC1815
2SA562TM



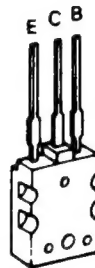
④ 2SA1206



⑤ 2SD1052A



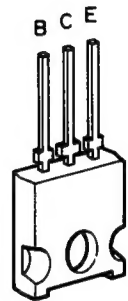
⑥ 2SC2068
2SD1428



⑦ RN1001
RN1003
RN2005
RN2006
RN1201
RN1202
RN1203
RN1204



⑧ 2SC3619



MFG : 009/TOS P/C: G03
ITEM : SM-CX3583A
053-457
SERVICE MANUAL
102094JRP062414TOS 1/EA

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TOSHIBA CORPORATION

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